# AUTOMATED ACCOUNTING IN AIR TRAVEL AGENCIES

# A CASE STUDY OF CLASSIQUE AIR SERVICE LIMITED KANO.

BY

# EMMANUEL JOHNSON PGD/MCS/99/2000/900

# DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE.

## FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

SEPTEMBER, 2001.

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# **EMMANUEL JOHNSON**

# PGD/MCS/99/2000/900

## A PROJECT SUBMITTED TO THE

## **DEPARTMENT OF MATHEMATICS/COMPUTER SCIENCE.**

# FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA

## NIGER STATE.

# IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE POST GRADUATE DIPLOMA (PGD) IN COMPUTER SCIENCE.

SEPTEMBER, 2001.

### CERTIFICATION

This is to certify that this project is carried out by Emmanuel Johnson (PGD/MCS/99/2000/900) in partial fulfillment for the award of postgraduate Diploma (PGD) in computer science, Federal University of Technology, Minna.

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DR. S. A REJU

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(PROJECT SUPERVISOR)

DR. S. A. REJU

(HEAD OF DEPARTMENT)

EXTERNAL EXAMINER

DATE

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DATE

DATE

## DEDICATION

To my wife Mrs Fati Emmanuel Johnson and - my daughters Precious and Bernice Johnson.

To you, for all the strength you gave, for every dream you make come true.

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#### ACKNOLEDGEMENT.

I will extol thee o God for thou has lifted me up and has not made my foes rejoice over me. I thank thee God for you are the giver and sustainer of my life.

I am highly indebted to my able supervisor Dr. S. A. Reju for his pain staking guidance and suggestions.

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To my lecturers in the Department. Your contributions, critism nay assistance in my educational development will forever remain ever green in my mind, I thasnk you all.

I must through this medium express my profound gratitude to the executive Governor of Niger state His excellency Engr. A. A. Kure for his moral, financial and fatherly support May God reward you richly. Special thanks also to Alhaji I. I. Salihu (ASP) the ADC to the executive Governor of Niger State for all his support and allowing me to grow ... thank you sir.

Words certainly is inadequate to express my profound gratitude to my friends, relatives and academic mentors who had contributed in one way or the other to make this career a success. I thank you all, most especially Mr. Collins Kpanga, Mr. Ado Aminu (ASP, Miss Bose Philip, Miss Edith Emabino and Miss Yemi Oyediran to mention but few.

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Thank you is an inadequate phrase to convey my gratitude to Mallam Suleiman Oveniyi Bello, Prof. M. A. Daniyan, Mr. Kolo Emmanuel, Engr. D. A. Emmanuel.

I am particularly grateful to the Nigeria Police, Niger State Command for allowing me to undergo the course, to you Supol Suleiman Huseni and Supol Ishaq Salihu I salute you for your corporation ... I remain loyal sirs.

My gratitude to my parents for all their support may God bless you.

Finally, my highest and unreserved appreciation to a rare gem; my wife Mrs. Fati Emmanuel for her support and encouragement, thank you.

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## ABSTRACT

This project work is based upon studies of accounting and record keeping system in travel agencies and how it can be computerized. The various records kept by the travel agencies are analysed.

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A program to ensure the easy and proper documentation of the monthly transaction of a travel agency was developed; the program is tested and found to be error free.

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# CHAPTER ONE

## 1.0 INTRODUCTION TO TRAVEL AGENCY OPERATIONS

#### **1.1 GENERAL INTRODUCTION**

The main operations of Air travel Agencies revolves around the reservation of seat for travelers and the selling of Airlines air ticket.

On sales made, an agreed percentage is deducted and this is referred to as the sales commission. Therefore, the total is being remitted to the Airline. The major source of income of the Travel Agency comes from the sales commission, which at present is at 9% on the actual ticket fare.

All the sales commission receivable by the Travel Agency from airlines is subject to certain percentage of withholding tax due to Federal Board of Inland Revenue.

At present the withholding tex is fixed at 10%. Some of the Airlines collect this withholding tax from travel agencies via sales remittance, while others require travel agents to make draft or certified cheque payments directly to the Federal Board of Inland Revenue.

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For accurate and easy access to financial information by the operators and other interested parties the operations of the travel agency is done base on financial record keeping and accounting system suitable for Air Travel Agencies.

## 1.2 INTRODUCTION TO CLASSIQUE SERVICE LIMITED.

Classique Air service Limited was incorporated on the 1<sup>st</sup> November 1992 with its office situated at Angwa Seriki Kano.

The authorized share capital of the company stood at 2000 000 ordinary shares of N1.00 per share. Out of which 1000,000 shares were issued to Directors/shareholders at per. The issued shares were all allocated to the shareholders and are paid for.

On the 28<sup>th</sup> of December 1992 the company obtained its International Airline Transports Association (IATA) license and commenced business in January 1993, the company's main business include reservation of seat and sales of airline air ticket.

The company has so far grown with branches in various parts of the country undergoing the same business objectives. Keeping records of transaction to be furnish to the headquarter at Kano.

Although, Classique Air service Limited is a profit oriented organization with source of profit mainly from sales commission. It is a capital intensive and as such do not require much capital expenditure, any expenditure, capital or otherwise is to be restricted to those very essential and necessary to the day-to-day smooth operations of the agency.

The moment Classique Air Service Limited obtained its IATA license it has been empowered to hold numbers of flight stock. Holding of stock of any

airlines tickets depends on fulfillment of terms and conditionalties for keeping stock of tickets and making the appropriate sales remittance.

Classique Air Travet Limited actually holds stock for different air lines, these tickets when collected from the various airlines are been kept securely and the movement of such tickets are been monitored carefully right from the time of being received by the agent till the time of their being issued and written to passengers or customers for money. Tickets duly validated and issue means money to both the Airlines and Travel Agency, based on this fact, the Classique Air Service makes proper air tickets stock recording and controlling these to be sure that validated tickets do not fall into wrong hands and for proper accountability, the organization therefore keep records that are of paramount important to record day to day transaction, involving the issuance of tickets, receipt and payment of cash and lodgments to bank.

## **1.3 OBJECTIVES OF THE STUDY.**

The objectives of this project are not only on improving the record keeping formats, its preparation and presentation but also on how the Account keeping and its preparation could be computerized for easy presentation of accounts of Air Travel Agency. This is for the benefit of Directors, Operators, Management and Accounting Personnel of travel agencies and for the benefit of those who wish to come into the business as air travel agents.

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This project is aimed at providing a more accurate and faster way of presenting the account of Air Travel Agencies from the books of original entries to the final accounts. The benefits of automated accounting system in Air Travel Agencies include:

The retrieval and accessibility to accounting record also become easier. The accounting activities become easier through the use of a program in the computer system.

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## CHAPTER TWO

#### 2.0 TRAVEL AGENCY RECORDS AND ACCOUNT BOOKS.

There are many types of records and accounting books a Travel Agency may like to design and out this depends on the individual company. Here, emphasis is law on the necessary records and the main books of accounts suitable to Air Travel Agency, by this we mean those records that are of paramount importance to record the day to-day transactions which involves the issues of tickets, control of ticket stocks, receipt and payment of cash and lodgments to banks.

#### 2.1 TICKET ISSUE REGISTER.

Flight ticket duly validated by any (IATA). International Airline Transporter Association member means money to the Airline having such ticket and to the Travel Agent holding the stock. If such type of ticket enters into wrong hand and eventually used by any person to travel on any route through the air line, the travel agent which holds stock or validates such ticket will account and pay for it to the airline concerned.

The ticket issue register is thus used to control the issue of tickets and the particular of the passenger on whose name the travel document is written is recorded in the ticket issue register, also the ticket number, date of issue and the amount of fare paid on the ticket are also recorded in the register.

The ticket issue register is being used to cross check and account for the ticket actually issue out to passengers. This could be checked at the close of every day business.

Table 2.1 is a clear format of ticket issue register.

DATE	NAME OF	PASSPORT	ROUTE	TOTAL	INN.	REMARK
	PASSENGER	NO		FARE	NO	
	• • • • • • • • • • • • • • • • • • •					

## 1. TICKET ISSUE REGISTER.

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### 2. TICKET STOCK CONTROL BOOK.

The purpose of this book is to record all tickets received from the airline and monitor their issuance to sale or ticketing department. These tickets when collected from the airline are to be kept securely, and the movements of the tickets are to be carefully monitored right from the time of their received by the agent till the time of their being issued and written to passengers or customer for money. The ticket stock control book and the ticket issued register show the actual ticket received from the airline and that issued to passengers.

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Below is a format for ticket stock control book

DAT	ETICKET	PASSPORT	CUSTOMER'S	CASH	CRDIT	COLLECTED	REMARK
	NO	NO	NAME	INV.	INV.	BY	
l							

## 2.2 RECEIPT REGISTER

On sales of ticket or on money collected for the reservation of seats, the cashier takes charge of the money and thereafter the money is taken to bank. This transaction is recorded on daily basis. This record should be closed and added up on daily basis at the close of the day's business. Although the main purpose of the receipt register is to take details of daily revenue received by the cashier and to act as a control to daily bank Lodgement report, which is been prepared by the cashier. The receipt register also help in the control of the issuances of revenue receipt and the monitoring of daily cash collection, the receipt register therefore serve as a strong internal control to the system of cash collection and subsequent bank Lodgement.

Below is the format for receipt register:-

## 2.3 RECEIPT REGISTER

PAYEE	RECEIPT	MODE OF	CHEQUE	AMOUNT	REMARK
	NO	PAYMENT	NO		
			·	l	
				4	
	PAYEE				PAYEE RECEIPT MODE OF CHEQUE AMOUNT NO PAYMENT NO

#### 2.3 DAILY BANK LODGEMENT RECORDS

The daily bank Lodgement record gives details of the total money received, receipted and finally lodges into Banks by the company's cashier.

The cashier prepares his Daily bank Lodgement records or statement from his receipt booklet and then sum up the amount which will have to agree with the figure taken to bank for Lodgement.

The account officers in the account department therefore cross check the record and then reconcile it with the receipt's register on daily basis, if there is difference, this indicate a problem of financial misappropriation.

Below is the format for daily Bank Lodgement records.

#### Table 2.4

### DAILY BANK LODGEMENT RECORD.

DATE	RECEIVED FROM	PURPOSE	RECEIPT NO	AMOUNT	CASH	CHEQUE
					a aa 11 a ah	
	· · · · · · ·			· · ·		,·
		•	······	·		
	TOTAL LODGEMENT			#	#	#

BANKS......
PREPARED BY: .....CHECKED BY.....
CASHIER ACCOUNTANT

#### 2.4 BOOKS OF ACCOUNT.

There are many books of account kept by companies or organization for the day to day record of the transaction and to ensure that proper record keeping and accounting system to been maintained in the company. This is also applicable to the Air Travel Agency and in particular Classique Air Service Limited.

Among the important books kept by the organization include the following.

#### (i) **PURCHASES DAY BOOK**

The purchases daybook is an important book of original entries, it is required only when the transaction involve the purchase of goods or services.

#### (ii) MAIN CASH BOOK

The main cashbook records the receipts of cash payment received by the organization, this book also records the cash payment made out of the cash collected. The travel agents in most cases have cash involvements because more of their sales transactions are on cash basis.

The need for main cashbook is to record cash receipts and payments. The book records all cash and cheques coming into the company whether from sales of flight tickets, receipt of commission from airlines or other agents, payment for shares by the agency.

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#### (iii) BANK CASH BOOK

The bank cashbook like any other cashbooks, records the money lodged with the company's bank account and the sum drawn from the bank accounts by means of cheque or any other written orders to the bankers.

The pay-in-slip (teller) is filled for every amount of cash or cheque intended for Lodgement with the bank. Thereafter the duplicate copy of the teller is used to record the receiving side of bank cashbook. Other documents used in the record of bank cash book includes cheque, debits or credit advice from banks and any formal letter signed by authorized signatories to the bank account, which may convey an order to the bank to effect transfer from or to the bank account.

At the end of every given period of time, two weeks, monthly or as it may be decided by the company, the bank cash is added up and the total of each column will be posted to the appropriate account in the General ledger. At the end of the given period or monthly, the bank cash book balance must be reconciled with the bank balance as per bank statement of account, the aim of this is to check and ensure that Lodgement into the bank account and withdrawals from it are correctly and accurately posted by the bank. If otherwise the bank is notified for correction or clarification.

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#### 2.5 FARE AND COMMISSION CALCULATIONS.

#### (i) FARE CALCULATIONS

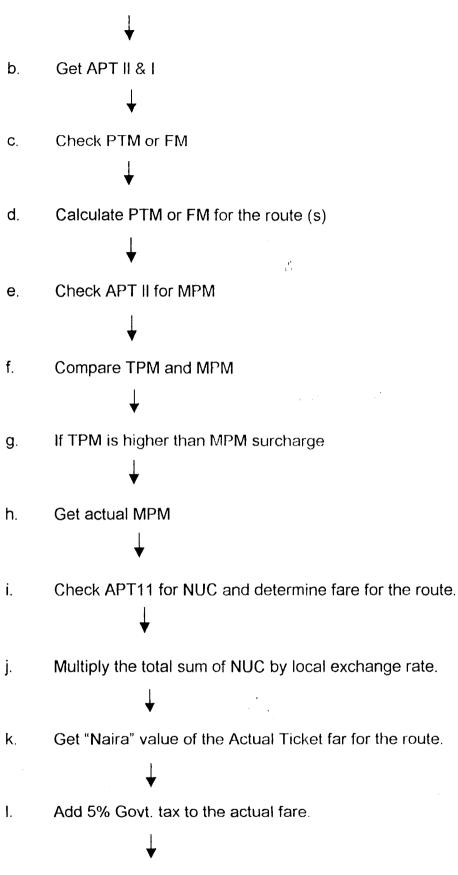
Determination of correct fare to be paid by an intending passenger is paramount to flight ticket issued to the passenger. It is of utmost important to Classique Air Service Limited and even to all the travel agencies this is to ensure that correct fare is calculated and collected from the passengers before flight ticket are issued to them.

In the error of omission or commission, a travel agent under calculates and under states the fare on a passenger's ticket for a chosen route, the airline that own such ticket will hold the travel agent responsible and liable and must cause the agent concerned to pay the amount that is under charged.

Ticketing and reservation staff of travel agency does calculation of the fare. In calculating the fare, reference is been made to Airline Passenger's tariff (APT). The APT is a common tariff approved by International Airline Transporters' Association (IATA), the IATA is generally used by all airlines and travel agency worldwide to determine the ticket point mileage (TPM), the maximum permitted mileage (MPM) the surcharge points where applicable and then calculate the neutral unit of construction (NUC) which is always stated in 11.5 dollars.

The following steps are hereby suggested to ensure accurate and correct fare calculations for passengers prior to the issuance of the flight tickets.

a. Determine the route or routes



m. Total Amount in local currency payable by the PAX.

For clear understanding of these steps, calculation of the air flight fare for a passenger Mr. Adamu, wishing to travel from Kano to Amsterdam London Amsterdam and back to Kano is as follows. The fare in our local currency (Naira), will be determined base on the following relevant from the APT (Airline Passenger Tariff).

- 1. Ticket point mileage (TPM) is 3007
- 2. Maximum permitted mileage (mpm) is 3328
- 3. Neutral units of construction NUC is7240.
- 4. Exchange rate (Naira per US dollar) is N 100
- 5. Government tax is 5% on the Ticket value

Calculation of fare for Mr. Adamu.

ROUTE	ТРМ	MPM	NUC
KAN	1395		
AMS	1395		
LON	217		620
AMS			
KAN	<u>1395</u>		<u>620</u>
TOTAL	3007	3328 given	1240

Rate of exchange (ROE) in Naira...

Actual Ticket fax	27,280.00
Add 5% Govt. Tax	<u>1,364.00</u>
Amount payable by Adamu	<b>№</b> 28,644.00

In the calculation above it seems simple because the route do not involve surcharge due to the fact that the TPM is not greater than the MPM. In a situation whereby the route involves where TPM is greater than MPM, there will be a surcharge, this rule is in APT1 and 11 and it is been determined by dividing TPM with MPM to get the point. This point will then be referred to surcharge table to determine the surcharge mileage and the NUC. Then local official exchange rate will be applied to convert the fare in Naira before adding government tax, which is 5% of the ticket value or actual fare.

For passenger Ado, wishing to travel from Kano to Amsterdam, Bangkok, Amsterdam, London, Amsterdam and back to Kano, the fare payable by him will be determined based on the following information obtained from APT: -MPM is 7417, TPM is 8493, exchange rate in Naira per US dollar is N100 and Government Tax still remains 5% of ticket value.

#### Calculation of fare Ado

ROUTE	TPM		MPM	
KAN-AMS	1395	(*) (*)		
AMS-BKK-AMS	5269			
AMS-LON-AMS	434			
AMS-KAN	1395		7417	Given.
	<u>8493</u>		<u>7417</u>	

From the above the TPM is greater than MPM; the surcharge would be determined by dividing TPM with MPM.

That is <u>8493</u> =1.15 points. 7417

Check the surcharge table on the last page of APT1 or APT11, get the mileage or percentage which will be added to the NUC fare for the route before ruling exchange will be applied to convert the fare into local currency. As for the above given route. KAN-AMS-BKK, have surcharge of 15%, which attract NUC fare of N159.45, then BKK-AMS-LON-AMS-KAN have surcharge of 25% which attracts NUC fare of N 265.75, that is NUC fare for the route multiply by 25%.

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The total amount payable by the passenger for the route is thus calculated. International flight fare calculations really involve some mathematics but a well-trained person in air ticketing and reservation can handle it very well.

#### (ii) CALCULATION OF SALES COMMISSION.

Sales commission is the main revenue or income of a travel agency. At present all air ticket sold by any (IATA) International Airline Transportation Association approved Travel Agent is subject to 9% commission to the agent. This 9% commission is calculated on the actual ticket fare for the given route covered by ticket fare. The commission is deducted at source by travel agents when making sales reports and remittance to Airlines.

For illustration purpose the actual ticket fare of N27,280.00 calculated for Mr. Adamu earlier will give a revenue of N2,455.20 to Classique Air service or any Air Travel Agency that will sell the ticket to Mr. Adamu, that is, N27,280.00 x9% =

#### (iii) COMMISSION TO SUB-AGENT AND ON CASH SALES.

To encourage prompt payments and cash sales, commission are allowed to sub-agent and on cash sales. This commission given to sub-agent is been deducted from the 9% sales commission, which Travel Agent received from agency revenue.

Travel agents should guide against reckless giving of commission to customers. They should ensure that commission allowed to customer in any transaction do not exceed 4% of actual ticket value or 40% of the 9% due to agent from Airline, otherwise the agent end up gaining less or about 50% of the 9% commission, hence 10% of the commission is deducted at source from the 9% sales commission for withholding tax to Federal Board of Inland Revenue.

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#### (iv) COMMISSION TO SALE REPRESENTATIVES.

The management as one of its marketing policies established the given of commission to sale representative or even to other staff of the organization in order to increase revenue thereby increasing the organization's profit.

It is not out of place to do the same in the travel agency, i.e. offering commission to various sales representatives provided the rate of commission given to all categories of sales representatives must be uniform to avoid possible manipulations of same to defraud the company. All persons entitle to sales commission, and terms and rate of commission due to them must be communicated as soon as possible to the account department in writing. The Agency Manager and the Accountant keep the activities of sales representatives under strict scruting. Asking the sales representatives to report directly to the Agency manager their daily sales, the Agency manager in turn report to the Accountant also on daily basis.

Assuming that the sales for the fare calculated for Adamu was made by a sales representatives where the sales representatives is entitled to 1% of every sales he/she made, the calculation is thus calculated.

Value of the ticket	27,280.00
add 5% Govt. tax	1,364.00

Sales commission to the representative = 1% of the ticket value which is

**₩** 27,280.00x1% = 272.80

The sales representative commission is calculated base on the total value of the ticket less Government tax element.

However, all sales commission receivable by travel agents from airlines is subject to 10% withholding tax due to the Federal Board of Inland Revenue. Some airlines collects this Board with-holding tax from travel agents, at source via the sales reports and sales remittance, while others require draft or certified cheque payments directly to Federal Board of Inland Revenue by the travel agents.

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In situation whereby a ticket is refunded the 9% commission due to the travel agent on sales of the ticket will be recalled back and deducted from subsequent sales commission due to the travel agent, also the 10% withholding tax to Federal Board of Inland Revenue will be recalled and deducted from any subsequent or current withholding tax due to the Federal Board of Inland Revenue FBIR.

#### 2.6 REFUNDS AND SALES REPORT.

#### (1) Refund

In the normal course of transacting business, Customers buy tickets which may either be on cash or credit but mainly on cash basis, these same customer may turn round later to return their tickets as unused and will demand for refunds, the amount of defund they are entitled to claim will depend on the nature and class of the ticket(s).

In a situation whereby the ticket has not been used for any travel at all then the customer will be entitled to the fare value of the ticket less the commission previously allowed to the customer if there is any, services charge or cancellation charge and any other genuine deduction from the ticket value. Where the ticket has been partially used, the customer shall only be entitled to a refund of the fare value of the ticket, less the commission previously allowed, Government tax.

In some cases ticket is been return in exchange for another Airlines ticket, in this type of situation the amount of refund to be claim by the customer will depend on the following transaction: -

- (1) If the former ticket cost more than the present one, the difference between the two tickets and vice versa shall the customer be entitled to.
- (2) Where a customer returns his or her ticket merely to change his/her ticket from one route to another, the customer may or may not be entitled to a refund, but this depends on the circumstances of his or her returns.

Where a customer returns a ticket in exchange for a new ticket of the same airline or that of another airline, the customer may or not be entitled to refund depending on the circumstances of the case.

At the end of a given period the refund book will be closed and added up and thereafter analyzed.

However, the net refund due to the agent from the airlines are deducted from any net sales amount due to the airlines within the same period or from any subsequent net sales.

#### (2) SALES REPORT.

This conveys information about the sales of tickets made by travel agents to the airlines concern. This report is prepared to cover sales made by the travel agents in given period, this could be monthly or half monthly or as agreed with the various airlines concerned. In the sales summary, the travel agency is required to deduct the sales commission due from the actual

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ticket fare, government tax and net refund are thus deducted where applicable in arriving at the balance to be remitted to the airline.

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# CHAPTER THREE

## **1.0 TRAVEL AGENCY OPERATIONS SYSTEM DESIGN**

### 3.1 DATA FOR ACCOUNTS OF TRAVEL AGENCY.

Haven discussed the essential books of accounts and records that are of paramount importance to the day-to-day transaction of the Air travel agencies, the true data gathered from transaction of Classique Air Service limited, Kano, for the month of January 2001 make up the data for preparation of the Accounts.

Below are the available data of Class Que Air Service Limited for Account purpose.

Date	Particulars	Invoice	Ticket No	Amount	Airline
03/1/2001	MUSA ISA	0200	PG2347	56,800.00	ВА
04/1/2001	ΤΟΒΙ ΙSA	0201	PG2348	66,800.00	SV
05/1/2001	ISA NAYAA	0202	PG2349	56,800.00	ВА
06/1/2001	MUSA ISA	0203	PG2350	66,800.00	SV
07/1/2001	TOBI YISA	0204	PG2351	76,800.00	WT
08/1/2001	EMMANUEL J.	0205	PG2352	86,800.00	WT
10/1/2001	UMORU HASSAN	0206	PG2353	96,800.00	SV
11/1/2001	ΥΑŬ ΚΑΙΤΑ	0207	PG2354	37,257.00	ВА
12/1/2001	IRO MOHAMMED	0208	PG2355	17,253.00	SV
13/1/2001	ALH. J. NGUGOMA	0209	93340	51,759.00	SV

#### Details of credit sales in January 2001

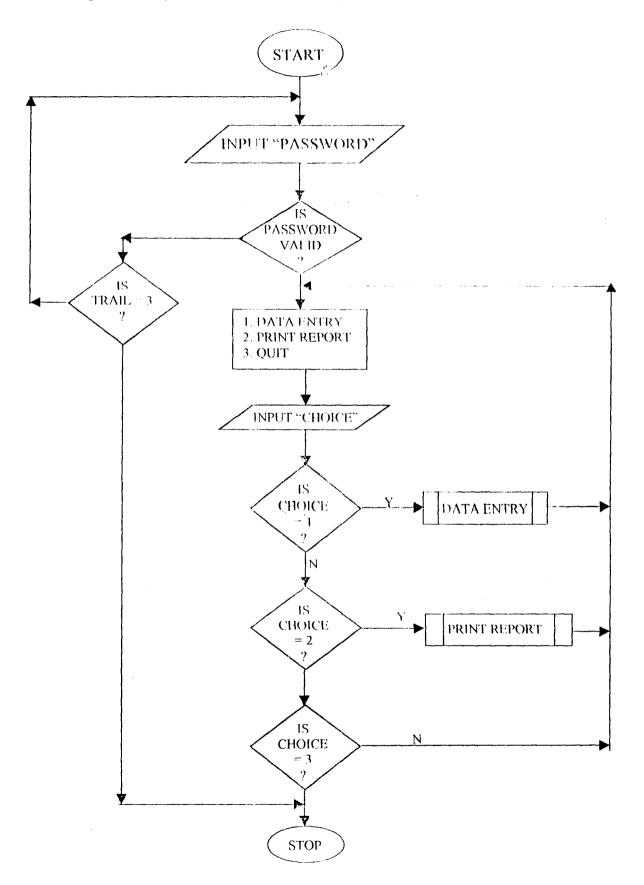
ALH. G. DUTSE	0210	93341	114,181.00	WT
ALH. K. KALE	0211	93342	60,000.00	WT
ALH. SALEH IDRIS	0212	93343	34,506.00	SV
DAMCO B. D/CHARGE	0213	93344	28,640.00	BA
ΥΛŬ ΚΑΙΤΑ	0214	93345	37,257.00	BA
KACHALLA MOH'D	0215	93346	28,644.00	WT
	ALH. K. KALE ALH. SALEH IDRIS DAMCO B. D/CHARGE YAU KAITA	ALH. G. DOTOLALH. K. KALE0211ALH. SALEH IDRIS0212DAMCO B. D/CHARGE0213YAU KAITA0214	ALH. K. KALE       0211       93342         ALH. SALEH IDRIS       0212       93343         DAMCO B. D/CHARGE       0213       93344         YAU KAITA       0214       93345	ALH. K. KALE       0211       93342       60,000.00         ALH. SALEH IDRIS       0212       93343       34,506.00         DAMCO B. D/CHARGE       0213       93344       28,640.00         YAU KAITA       0214       93345       37,257.00

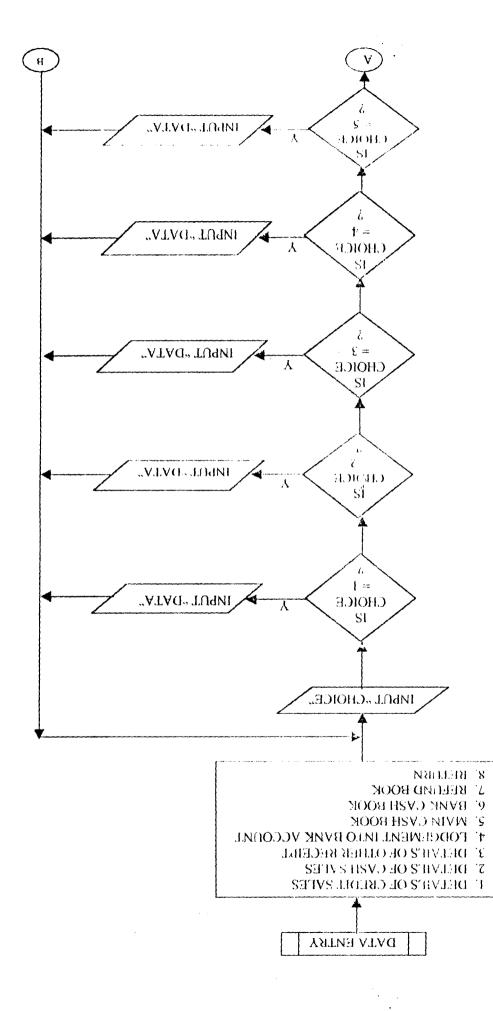
# Details of cash sales in January 2001

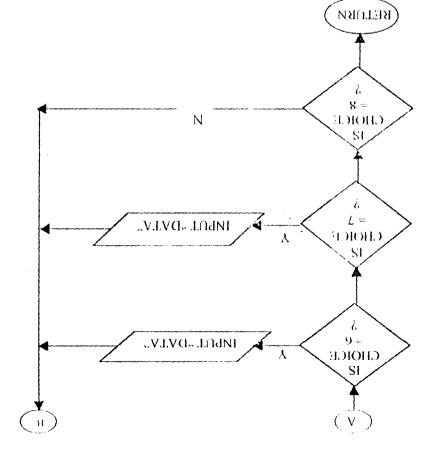
Date	Particulars	Invoice	Ticket No	Amount	A/Line
03/01/2001	SULEMAN	201	Q92123	115,184.00	SV
	MOHAMMED				
04/01/2001	MUSA	202	Q92124	17,253.00	SV
	ADAMU				
05/01/2001	EZE	203	Q92125	36,973.00	KLM
	CHRISTIAN				
06/1/2001	USMAN ALE	204	Q92126	120,771.00	SV
07/1/2001	MUSA GIBO	205	Q92127	15,000.00	KLM
08/01/2001	TAHIR	206	PQ92352	36,973.00	BA
	ABDULLAHI				
09/1/2001	HARUNA	207	PQ 92353	56,272.00	BA
	ABDULLAHI				
09/1/2001	SULEMAN	208	Q92128	24,667.00	WTS
	MOH'D				

### 3.2 ALGORITHMS OF PROGRAM

The algorithm of program used in this project is as drawn bellow: -



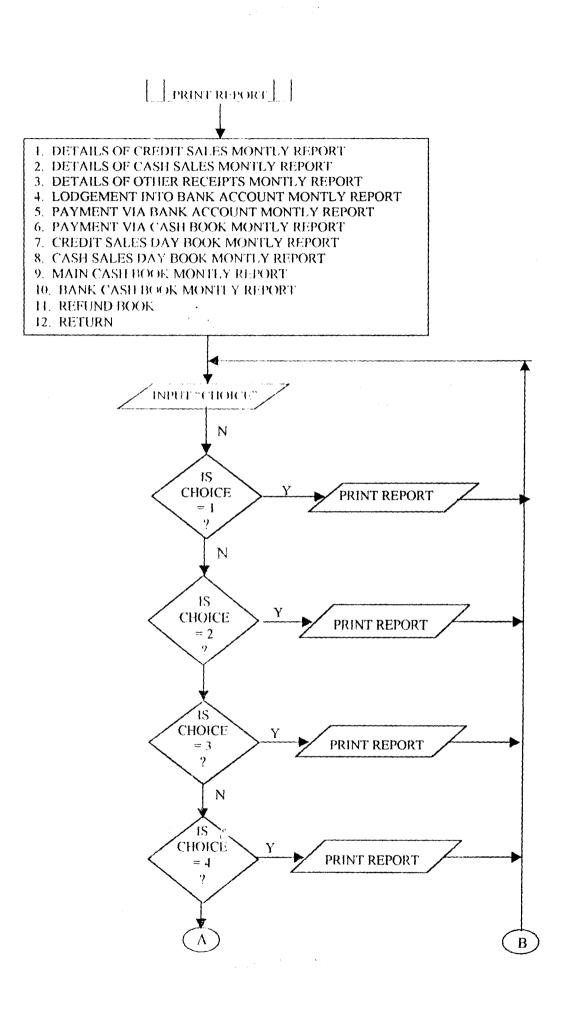


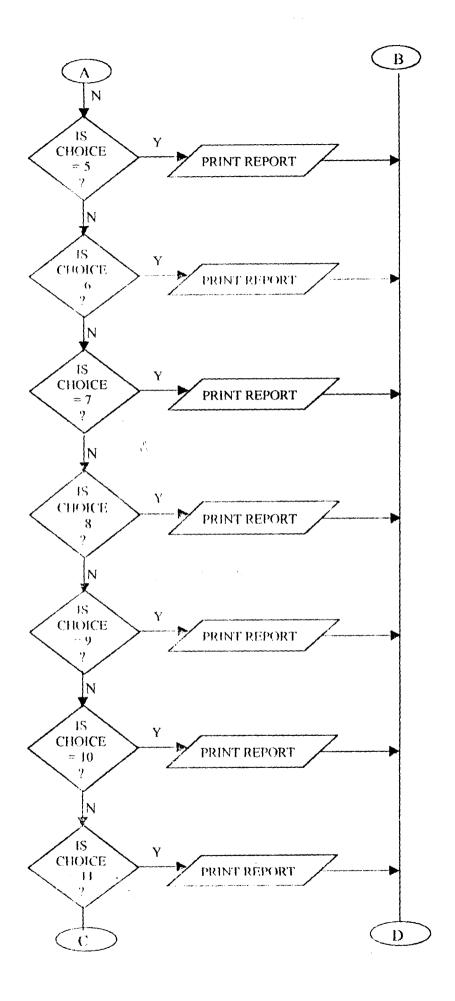


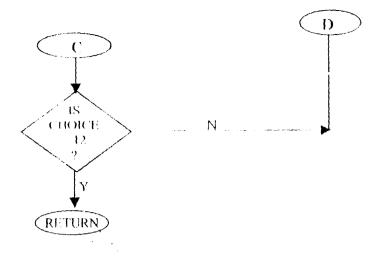
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#### 3.3 SYSTEM DESIGN

System design is the use of programmer's creative ability and sense in organizing a logical but literally feasible procedure for a computerized system.

The system design also provides detailed documentation of the entire system. Specifically the design stages of this software would produce output as follows: -

#### 3.3.1 GENERAL SYSTEM DESIGN:

The general system design includes the flow chart (procedure) and a written explanation (Pseudocode).

For this study, coding (programming) is used to depict the representation of the project. This is available in appendix A.

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#### 3.3.2 DATA BASE DESIGN

Database design, which is also know as file design, is the denominator of any system. It contains the raw material (Data) necessary to produce output. Database file used design includes the entire database files used throughout the system for proper storage of the course processing data. Below are the physical descriptive structures of the database files used.

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#### TCREDIT. DBF

NAME	ТҮРЕ	WIDTH	DECIMAL	INDEX
Mdate	Date		-	
Part	Character	-	- `	
Invoice	Character	-	-	
Ticknum	Character	-	-	
Amt	Numeric	2	-	
Aline	Character	-	-	
Gt	Numeric	2	-	
Commrec	Numeric	2	-	
Trade	Numeric	2	-	
Wtax	Numeric	2.	-	

### TMAINCASH. DBF

NAME	ТҮРЕ	WIDTH	DECIMAL	INDEX
Mdate	Date	8		-
Part	Character	25	-	-
Receiptnum	Numeric	6	0	-
Totanet	Numeric	15	2	-
Cashsal	Numeric	12	2	
Sharecapt	Numeric	15	2	-
Debtcontr	Numeric	12	2	-

Commrec	Numeric	12	2	-

#### TREFUND. DBF

NAME	ТҮРЕ	WIDTH	DECIMAL	INDEX
Mdate	Date	8	-	-
Custname	Character	25	-	-
Retinv	Numeric	5	0	-
Ticknum	Character	25	-	-
Totanet	Numeric	15	2	-
Recacomm	Numeric	8	2	-
Rectax	Numeric	8	2	***
Sc	Numeric	8	2	-
Recall	Numeric	15	2	-
Cash	Numeric	15	2	-
Drc	Numeric	15	2	-
Aline	Numeric	12	2	

#### 3.3.3 INPUT DESIGN: -

The various Data input forms produced using the above database files structures are below:

- 1) Details of credit sales
- 2) Details of cash sales
- 3) Payment via Bank Account
- 4) Payment Via cash Book

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# Welcome to

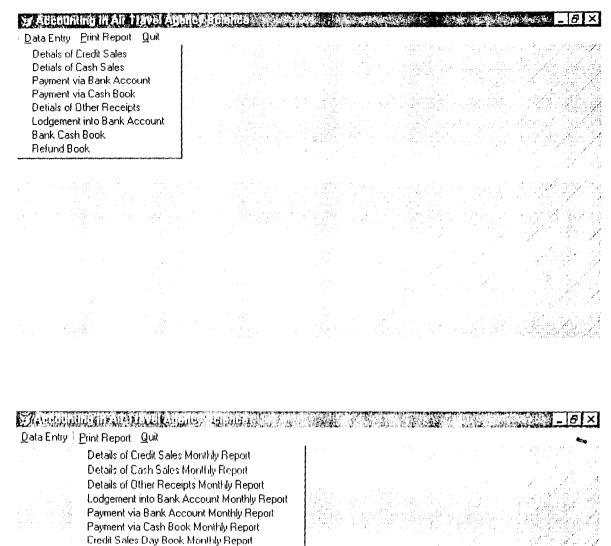
AUTOMATED ACCOUNTING IN AIR TRAVEL AGENCIES. (A Case Study of Classique Air Services Ltd, Kano.)

A project developed by: EMMANUEL JOHNSON

PGD/MCS/99/2000/900

MATHS/COMPUTER SCIENCE DEPARTMENT FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA IN PARTIAL FULFILMENT FOR THE REQUIREMENT FOR THE AWARD OF POSTGRADUATE DIPLOMA IN COMPUTER SCIENCE.

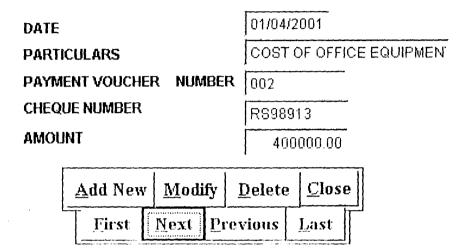
# LOGIN FO	RM	
Enter	your User Name	and Password
	User Name	
	Password ***	
	<u>O</u> k <u>C</u> los	e



Cash Sales Day Book Monthly Report Main Cash Book Monthly Report Bank Cash Book Monthly Report Refund Book

PARTICULARS	TOBLISA		
DATE	04/01/2001	GOVERNMENT TAX	graft dae
INVOICE NUMBER	0201	COMMISSION	100 C (4)
TICKET NUMBER	P92348	W/H TAX	6. 1
AMOUNT	66800.00	TRADE CREDITORS	1441 T 14
AIR LINE	SV		
Add	New <u>M</u> odify	<u>D</u> elete <u>C</u> lose	
Fi	rst Next P	revious Last	

PARTICULARS	Musa Adamu		
DATE	04/01/2001		
INVOICE	202	COMMISSION ALLOWED	
AMOUNT	17253.00	GOVERNMENT TAX	1997 - 1997 -
TICKET NUMBER	Q92124	COMMISSION	
AIRLINE	SV	WALTAX	
CASH SALES	0.00	TRADE CREDITORS	
SHARE CAPITAL	17253.00	NEW TOTAL	1 - 1 - 1
DEBTORS CONTROL	0.00	ł	
COMM. RECALLED	0.00		
Add New Modify	y Delete Fi	rst Next Previous L	ast   Close

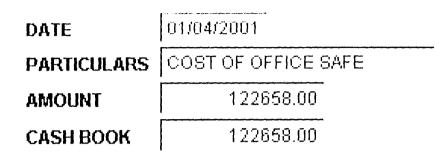


Ð	PARENNEN						
	PARTICULARS	L IL	r		T TO BANK	, ,	
	PAYMENT VOL	ICHER NUMBEI		01/04. 0102	/2001		
	AMOUNT		Γ	4000.00			
		<u>A</u> dd New	<u>M</u> 0	dify	Delete	Close	
		<u>First</u>	Next	<u>P</u> r	evious	Last	

01/04/2001 DATE PARTICULARS MUSA GIBO FOR SHARES 104 RECEIPTS AMOUNT 130000.00 <u>M</u>odify <u>D</u>elete <u>C</u>lose Add New Next <u>P</u>revious First Last

DATE	04/01/2001					
PARTICULARS	CASH LODGEMENT					
BANK	GTB					
AMOUNT	6312.00					
<u>A</u> dd New	Modify Delete Close					
<u> </u>	Next Previous Last					

## 



	<u>A</u> dd New	<u>M</u> odif	<u>M</u> odify		<u>C</u> lose	
L=	<u> </u>	<u>Next</u> P		revious	Last	Ī

CUSTOMERS NAME	EZE CHRIS	BTIAN		dige discussions	
REFUND INVOICE	2	DATE	04/01/20	101	
TICKET NUMBERS	GT92124				
SERVICE CHARGE	14	58.00	RECA	LLED COMMISSION	аналанан алар алар алар алар алар алар а
RECALLED COMM./	ALLOWED	1	800.80	RECALLED W/TAX	ал., ў
TOTAL AMOUNT	3105	12.00		, AIR LINES	
<u>A</u> dd New <u>N</u>	<u>M</u> odify <u>I</u>	elete	Close		
<u>F</u> irst <u>N</u>	ext Prev	ious	Last	-	

- 5) Details of other receipts
- 6) Lodgement into Bank Account
- 7) Bank cash Book
- 8) Refund Book

#### TACC.DBF

NAME	TYPE	WIDTH	DECIMAL	INDEX
Mdate	Date	8		
Part	Character	30	-	-
Voucnum	Character	8		-
Chqnum	Character	12	-	Ascending
Amt	Numeric	15	2	-
Date2	Date	8	-	
Part2	Character	25	-	-
Amt2	Numeric	15	2	-
cashbk	Numeric	15	2	-

#### TBANK.DBF

NAME	TYPE	WIDTH	DECIMAL	INDEX
Mdate	Date	8	-	-
Part	Character	40	-	-
Bank	Character	20	-	-
Amt	Numeric	15	2	-

### TBOOK.DBF

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NAME	ТҮРЕ	WIDTH	DECIMAL	INDEX
Mdate	Date	8	н. Н	
Part	Character	3	-	-
Voucnum	Character	6	-	-
Amt	Numeric	15	2	-

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#### TCASH.DBF

NAME	ТҮРЕ	WIDTH	DECIMAL	INDEX
Mdate	Date	8	-	-
Part	Character	25	-	-
Invo	Character	10	-	-
Ticknum	Character	18	-	-
Amt	Numeric	12	2	-
Aline	Character	10	-	-
Gt	Numeric	8	2	-
Common	Character	8	2	-
Htax	Character	6	2	-
Trade	Numeric	15	2	-
Commall	Numeric	8	2	-
Date2	Date	8 8	-	-
Part2	Character	25	0	-
Receipt	Numeric	6	<b>e</b>	
Amt2	Numeric	15	2 .	-
Ntot	Numeric	12	2	-
Cscales	Numeric	12	2	-
Shares	Numeric	12	2	-
Debtors	Numeric	12	2	-
Commrec	Numeric	12	2	-

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#### 3.4 CHOICE OF PROGRAMMING LANGUAGE USED

The proposed system is going to be used to storing large number of data/ information and time-to-time retrieval of record is perform. Due to this fact, the choice of the programming language chosen for the development of the system is database Management system (DBMS) package with special preference for Visual FoxPro.

#### 3.5 FEATURES OF THE PRAGRAMMING LANGUAGE USED.

Visual FoxPro is selected as the choice of programming language because of the following features and reasons.

- It is easy to write an interactive user interface program and also simple to understand.
- It is users friendly.
- 3) It reduces data redundancy.
- 4) Data integrity can be maintained.
- 5) Provides easy and greater access to information
- 6) Individual database file can be designed to meet specification requirement of a particular functional unit of an organization.
- 7) The Visual FoxPro allows the source program to be compiled to an executable file thereby allowing the program to be run independent of he application software that was used in coding the program for example, Visual FoxPro.
- 8) It has quality graphical users interface.
- 9) It is easy to maintain and to debug; it has debugging tools.

#### **CHAPTER FOUR**

#### 4.0 IMPLEMEMTATION

#### 4.1 SYSTEM IMPLEMENTATION

System implementation is a broad term that encompasses testing and debugging hardware and software requirement.

#### System installation and conversion

It is also the coordination of the facts that is necessary in ensuring the operation of the new system.

#### 4.2 SYSTEM TESTING AND DEBUGGING.

The essence of program testing is to make sure that program is error free and that all the logic involved are well defined and straight forwards. However, it is often seen as a means of establishing that a program is error free and that it does what is required.

It is virtually impossible to test a program so thoroughly that it can be claimed to be completely free of errors, therefore, it is more realistic to think of testing as a "process of finding error". When a stage is reached, and the program appears to run perfectly this does not means there are no more errors in the program, it simply means that those errors have not been discovered.

Hence, this software has been developed tested with real live data, Irrespective of people and environment and it was found to be error free.

#### 4.3 HARDWARE AND SOFTWARE DEVELOPMENT

To make maximum utilization of the developed system, certain hardware and software need to be installed.

#### 4.3.1 HARDWARE REQUIREMENT

Hardware: This is the physical components of the computer system i.e computer peripherals. The following are the recommended specification, which if adhered to would produce the best result, and the system will be free from errors/faults: -

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- Monitor (display)
- Keyboard
- Mouse
- Hard disk UPS (uninterruptible power supply)
- System unit which comprises of: -
- i System case (chassis)
- ii. Motherboard (system board)
- iii Microprocessor
- iv Memory (RAM)
- v. Power supply
- vi. Floppy drive

- Vii Hard drive
- Viii CD Rom drive.

#### 4.3.2 SOFTWARE REQUIREMENT

Software requirement are the basic and relevant application software that is needed to be installed on the computer system in order to make maximum utilization of the computer system and the developed software. It is because of this fact that the following software must be installed on the system.

The software includes: -

- (a) Operating system software (Window 98 or 2000)
- (b) Designed software such as: -
- (i) Office 2000 viz: Ms word, Ms excel, Ms power point.
- (ii) Visual Studio specifically Visual FoxPro.

#### 4.4 PROGRAMING INSTALLATION

This is the process of transferring the developed software from the floppy disk to a permanent storage device called the Hard disk.

However, due to vast improvement in recent operating systems, the installation of the software is a very simple operation. The steps involved in the procedure are as follows: -

STEPS	PROCEDURE	RESULT
1. Go to start	Click	Start popup menu is
		displayed.
2. Run submenu	Click	Run dialog box
		displayed
3. Insert air travel software	-	-
diskette into A:\		
4. Type the source drive	Browse	Content of A:\
(A:\)		displayed
5. Select set-up	Double – click	Installation begins
6. Follow the instruction	Click	Installation in progress
that Follows		
7. Destination	-	Software installed C:\
		successfully

## CHANGING THE SOFTWARE FROM C:\ TO WINDOW PROGRAM SUBMENU

STEPS	PROCEDURE	RESULT
1. Go to start	Click	Start popup menu
		displayed
2. Setting submenu	Click	-
3. Choose taskbar	Click	Taskbar dialog box
& start menu		
4. Select start menu	Click	-
program		
5. Browse to select		-
AIR TRAVEL		
software	Double - click	
6. Select folder		-
(program)		
	Click	AIR TRAVEL software
7. Destination		copied into program
	Click	submenu successfully.
	n	
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#### 4.5 PROGRAM OUTPUT/RESULT.

The output produced in this program is as follows: -

- (1) Details of credit sales monthly report.
- (2) Details of cash sales monthly report.
- (3) Details of other receipts monthly report.
- (4) Lodgement into Bank Account monthly report.
- (5) Payment via Bank Account monthly report.
- (6) Payment via cash monthly report.
- (7) Cash Sales Daybook monthly report
- (8) Details of Credit Sales monthly report.
- (9) Main Cash book monthly report.
- (10) Bank cash book monthly report
- (11) Refund book.

The printed hard copies of these output/results are as shown in Appendix B.

#### 4.6 SYSTEM CONVERSION

Conversion could be refer to as the process of converting or changing old system to a new one. There are four various methods of conversion and they are as a follows:

 PARALLEL OPERATING METHOD: - this is a system of conversion in which the new systems introduced is used along side with the old one, the old system thereafter phase out.

- 2. PILOT APPOROACH: a working version of the system is implemented in one part of the organization, changes are made based on the feedback, there after the new system is installed in the rest part of the organization.
- DIRECT CHANGEOVER: -this is simply the total replacement of an existing system by the new one at once.
- 4. PHASE –IN METHOD: this is the systematic way of changing from old to new. The new system is used in certain section of the organization in parallel with the old system, until it becomes effective on its own; again the same is done in another section. This process is repeated in all section of the organization until the entire organization is covered.

The conversion method that suggests being appropriate for the system developed for the transaction of Airline Agencies is parallel operation method.

This method is considered appropriate because from the observation of the records and account kept in the Agencies, there are various branch offices and agents who are involved in the transaction business of the agency, these agents and branch office do not prepare their final Accounts rather, the head office is charge with the preparation of the final Account, the account officers at the head office thus prepare the final account which is the trading, profit and loss Account on receiving reports of sales from the

various branch offices. It is therefore appropriate to use this method that is,

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## **CHAPTER FIVE**

#### 5.0 SYSTEM DOCUMENTATION AND CONCLUSION.

**5.1 DOCUMENTATION:** -This is referred to as the proper keeping of records for future use. The program used in computerizing the records and Account of the Air Travel Agencies need to be properly documented, this is so because accounting itself is concerned with the use to which records are put, their analysis and interpretation.

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Documentation is also important because where there is proper record, when the initial programmer is not available any other programmer can get into the source code to make any necessary amendment.

Considering the method of conversion which is the parallel method, as technology develops, there may be need to modify or add one or two things into the source code so that it can do more than the recording and printing of report. Proper documentation will make the work of a programmer easier. Sample of work done and the installation diskette should be properly kept as well.

The main importance of the installation diskette is to enable one introduce a particular program into a system that does not have the programming language in use; documentation allow proper reference to be made.

#### 5.2. RECOMMENDATION.

As a management function, control is the process of taking the necessary preventive or corrective measure to ensure that the organization's mission and objective of profit oriented venture is accomplished effectively and efficiently.

To ensure that loss and misusage of air ticket stock do not occur, frequent check of ticket stocks should be made at routine and proper record of transaction are to be made.

Proper record of transactions can be made as already discussed in this project.

Automated Accounting Systems in Air Travel Agencies makes the business transaction more accurate, conducive and fast, more so, it is easy to understand. The training of Accounting Staff to use computed system will make-work faster.

#### 5.3 CONCLUSION.

Accounting in travel agencies will be simple and straightforward if the operators or owners of air travel agencies in the country can make use of computer in their record keeping.

During the course of this project work a software package has been developed to help in monitoring and keeping proper record of transaction on monthly basis. The automated system if carefully monitored will help in

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keeping accurate records without keeping bulky registers and producing. report become faster.

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- 2. Arigbede F. (1983) A hand Book of Air Travel Agencies. Evan Brothers (Nigeria Publisher) Limited, Ibadan.
- 3. Omuya J. (1982) Business Accounting 1 Longman, Singapore.
- 4. Soyode A. (1982) Financial Accounting Principle and Practice, F & A Publisher Limited Jos.
- Tausing A. (1993) Visual FoxPro 6.0 Programmer's Guide Microsoft Press, Redmond, Washington U. S. A.

## ACCOUNTING IN AIR TRAVEL AGENCIES DETAILS OF CREDIT SALES IN JANUARY, 2001.

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DATE	PARTICULARS	INVOICE	TICKET NUMBER	AMOUNT	AIR LINE
01/01	MUSAISA	0,000	P92347	56,890.00	ВА
01/01	TOBI ISA	0201	P92348	66,800.00	SV
01/01	ISA NAYAYA	0202	P92349	56,800.00	ВА
01/01	MUSA ISA	0203	P92350	66,800.00	SV
01/01	TOBI YISA	0204	P92351	76,800.00	WT

## ACCOUNTING IN AIR TRAVEL AGENCIES DETAILS OF CASH SALES IN JANUARY, 2001.

18/2001 PARTICULARS AMOUNT AIR LINE INVOICE TICKET NUMBER ABDULLAHI MOHAMMED 39,448.00 sv 01/2001 209 Q92124 01/2001 GAMBO POTISKUM 9,426.00 0562 Q92125 KLM '01/2001 0563 1,571.00 s٧ ALH. KACHALLA MOH'D Q92126 01/2001 DIRECT COMM. FROM E / 205 Q92127 9,426.00 KLM 01/2001 SULLIMAN MOHAMMED 205 24,667.00 Q92127 кім

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## ACCOUNTING IN AIR TRAVEL AGENCIES DETAILS OF OTHER RECEIPTS IN JANUARY, 2001.

¥01				_
ſE	PARTICULARS	RECEIPTS	AMOUNT	
)1/01	S.S WILLIAM FOR SHARES	552	100,000.00	]
01/01	IBRAHIM A. FOR SHARES	553	100,000.00	1
01/01	YANUSA SALIHU FOR SHARES	554	100,000.00	1
01/01	YEMCO BUREAU D/CHANGE	555	25,000.00	 1
01/01	YEMCO BUREAU D/CHANGE	0	25,000.00	1.

## ACCOUNTING IN AIR TRAVEL AGENCIES LODGEMENTS INTO BANK ACCOUNT IN JANUARY, 2001.

TE	PARTICULARS	BANK	AMOUNT	
1/01	CHEQUES FROM DIRECTOR	STB	350,000 00	
1/01	CASHLODGEMENT	518	6,312.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1/01	CHEQUES FROM DIRECTOR	SIB	100,000.00	
1/01	CHEQUES FROM DIRECTOR	STB	200,000.00	
1/01	CHEQUES FROM DIRECTOR	STB	350,000.00	- <u></u>
		1	0.00	

#### ACCOUNTING IN AIR TRAVEL AGENCIES PAYMENT VIA BANK ACCOUNT IN JANUARY, 2001.

)8/01 PAYMENT VOUCHER AMOUNT PARTICULARS **CHEQUE NUMBER** )ATE NUMBER /01/01 COST OF 505 PEUGEOT 001 545401 130000.00 /01/01 545402 10000.00 COST OF FILE CARBINETS 002 /01/01 68000.00 COST OF A/C FOR OFFICE 003 545403 /01/01 COST OF OFFICE SAFE 004 545404 16640.00 /01/01 COST OF TYPEWRITER 005 5500.00 545405

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## ACCOUNTING IN AIR TRAVEL AGENCIES PAYMENTS VIA CASH BOOK IN JANUARY, 2001.

05/08/2001

DATE	PARTICULARS	PAYMENT VOUCHER NUMBER	AMOUNT
03/01/2201	PAYMENT TO SAUDIA AIR	9101	175,138.00
04/01/2001	LODGEMENT TO BANK	9102	356,312.00
05/01/2001	REFUND TO EZE CHRISTIAN	9103	26,180.00
06/01/2001	PAYMENT TO BRITSH AIR	9104	52,861.00
08/01/2001	LODGEMENT TO BANK	9105	729,330.00

## ACCOUNTING IN AIR TRAVEL AGENCIES

## CREDIT SALES DAY BOOK FOR THE MONTH OF JANUARY, 2001.

05/08/01

DATE	PARTICULARS	INVOICE	TICKET NUMBER	TOTAL	GOVERNMENT TAX	COMMISSION	W/ H TAX	AIR LINE	TRADE CREDITORS
03/01/01	MUSA ISA	0200	P92347	56,800.00	2.840.00	4,856.40	485.64	ЗА	51,457.96
04/01/01	TOBIISA	0201	P92348	66,800.00	3.340.00	5,711.40	571.14	SV	60,517.46
05/01/01	ISA NAYAYA	0202	P92349	56,800.00	2,840.00	4,856.40	485.64	ЗА	51,457.96
06/01/01	MUSA ISA	0203	P92350	66,800.00	3.340.00	5,711.40	571.14	SV	60,517.46
07/01/01	TOBI YISA	0204	P92351	76,800.00	3.840.00	6,566.40	656.64	NT	69,576.96
		тот	AL AMOUNT:	324,000.00	16,200.00	27,702.00	2,770.20	·····	293.527.80

## ACCOUNTING IN AIR TRAVEL AGENCIES MAIN CASH BOOK IN JANUARY, 2001.

RECEIPT COMMISSION PARTICULARS SHARE CAPITAL DEBTORS CONTROL DATE CASH SALES NUMBER **NEW TOTAL** RECALLED ABDULLAHI 209 38098.88 38089.88 0.00 0.00 03/01/01 Q.0Q. MOHAMMED GAMBO POTISKUM 0562 9103.63 0.00 0.00 9426.00 0.00 04/01/01 ALH. KACHALLA 0563 1517.27 0.00 04/01/01 0.00 1571.00 0.00 MOH'D DIRECT COMM. 205 9103.63 0.00 0.00 0.00 05/01/01 9426.00 FROM E / AIR SULEIMAN 205 23823.39 23823,39 0.00 0.00 05/01/01 0.00 MOHAMMED TOTAL AMOUNT: 81.646.80 61,913.27 10,997.00 9,426.00 0.00

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08/05/01

## ACCOUNTING IN AIR TRAVEL AGENCIES BANK CASH BOOK IN JANUARY, 2001

	PARTICULARS	AMOUNT	CASH BOOK	DATE	PARTICULARS	AMOUNT
2001	MAIN CASH BOOK	356312.00	356312.00	04/01/2001	COST OF 505 PEUGEOT	130000.00
2001	MAIN CASH BOOK	3000000.00	3000000.00	04/01/2001	COST OF FILE	10000.00
2001	MAIN CASH BOOK	350000.00	350000.00	04/01/2001	COST OF A/C FOR	68000.00
2001	MAIN CASH BOOK	79330.00	79330.00	04/01/2001	COST OF OFFICE SAFE	16640.00
2001	MAIN CASH BOOK	64110.00	64110.00	05/01/2001	COST OF TYPEWRITER	5500.00
	TOTAL:	64110.00	64110.00	I	I	

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CLFAR set date to brit set safety off set color to w/b set exclusive on set date to brit set century on set status off set talk off

clear set path to c:\account set defa to c:\account

PUBLIC MY, myear store space(9) to myear PUBL mdate, mno, xyr,prval,date mdate = {//}

\_screen.icon = "seccast.ico"
\_screen.caption = "Accounting in Air Travel Agency Science"
\_screen.picture = "wizflax.bmp"

my ==0 do form frmlogin

sele 1 do mainmenu mpr read events return

\*-- BaseClass: form

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Height = 146 Width = 305 DoCreate .T. AutoCenter = .T. Caption = "DATE VALIDATION FORM" ControlBox = .F. Icon "" Name "Form1"

ADD OBJECT shape2 AS shape WITH; Top = 20, ; Left = 25, ; Height = 72, ; Width = 256, ; Curvature = 45, ; BackColor = RGB(155,187,193), ; Name = "Shape2"

ADD OBJECT shape1 AS shape WITH ; Top = 99, ; Left = 48, ; Height = 37, ; Width = 195, ; BackColor = RGB(255,128,0), ; Name = "Shape1"

ADD OBJECT command1 AS commandbutton WITH; Top = 105, ; Left = 55, ; Height = 25, ; Width = 120, ; FontBold = .T., ; Caption = "\<Generate Report", ; ForeColor = RGB(128,0.64), ; Name = "Command1"

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ADD OBJECT label2 AS label WITH ; AutoSize = .T., ;

```
FontBold = .T.;
             FontSize 10. ;
             WordWrap ......
             BackStyle 0, :
             Caption "Transaction Month", ;
             Height = 18, ;
             Left = 36, ;
             Top = 32, ;
             Width = 117, ;
             TabIndex = 1, ;
             ForeColor = RGB(128,0,64);
             Name = "Label2"
      ADD OBJECT chomonth AS combobox WITH ;
             ColumnCount = 0, ;
             ColumnWidths = "", ;
             RowSourceType 1, :
                                                                                   -
             RowSource
"JANUARY, FEBRUARY, MARCH, APRIL, MAY, JUNEJULY, AUGUST, SEPTEMBE
R,NOVEMBER,DECEMBER", ;
             ControlSource = "xmon", ;
             Enabled = .T., ;
             FirstElement = 1, ;
             Height = 24, ;
             Left = 159.;
             NumberOfElements = 0, ;
             Top = 29, ;
             Width = 108, ;
             Name "cbomonth"
      ADD OBJECT label1 AS label WITH ;
             FontBold T.;
             FontSize \approx 10, ;
             WordWrap = .T., ;
             BackStyle = 0, ;
             Caption = "Transaction Year", ;
             Height = 18, ;
             Left = 36, ;
             Top = 63, ;
             Width = 107, ;
             TabIndex = 1, ;
             ForeColor = RGB(128.0.64);
             Name -- "Label1"
                                      iii
```

ADD OBJECT emdelose AS commandbutton WITH ; Top = 105, ; Left = 175, ; Height = 25, ; Width 61, ; FontBold T., ; Caption "Close", ; ForeColor RGB(128,0,64), ; Name = "emdelose"

ADD OBJECT txtyr AS textbox WITH; Alignment = 3, ; Value = 0, ; ControlSource = "YR", ; Format = "", ; Height 25, ; InputMask = "", ; Left = 157, ; Top = 58, ; Width 109, ; Name "txtyr"

#### PROCEDURE Init

PUBL prval PUBL mdate, mno, xyr SET DATE TO brit mdate = {//} THISFORM.cbomonth.ENABLED = .T. THISFORM.txtyr.ENABLED = .T. ENDPROC

PROCEDURE command1.Click PUBL prval SFT DATE TO brit DO CASE CASE prval ~ 1 IF USED("teredit") SELE teredit ELSE SELE 0 USE teredit iv

ENDIF SET FILTER TO MONTH(mdate) = mno AND YEAR(mdate) = xvr**REPORT FORM reredit PREVIEW** CASE prval = 2IF USED("teash") SELE teash ELSE SELE 0 USE teash **ENDIF** SET FILTER TO MONTH(mdate) ~ mno AND YFAR(mdate) xyr REPORT FORM reash1 PREVIEW CASE prval 3 IF USED("tcash") SELE teash ELSE SELE 0 USE teash ENDIF \*SET FILTER TO MONTH(mdate) = mno AND YEAR(mdate) × xyr REPORT FORM receipt PREVIEW CASE prval = 4IF USED("tbank") SFLE tbank **FESE** SELE 0 USE tcash ENDIF \*SET FILTER TO MONTH(mdate) = mno AND YEAR(mdate) = xyr**REPORT FORM rbank PREVIEW** CASE prval = 5IF USED("tacct") SELE tacct ELSE SELE 0 **USE** tacet ENDIF SET FILTER TO MONTH(mdate) = mno AND YEAR(mdate) = xyr REPORT FORM racet1 PREVIEW CASE prval 6 v

# HEUSED("(book") SELE (book ELSE SELE 0 USE (book ENDIF

# SET FILTER TO MONTH(mdate) = mno AND

YEAR(mdate) = xyr

### REPORT FORM rbook PREVIEW

CASE prval = 7 IF USED("teredit") SELE teredit

ELSE

SELE 0

USE teredit

### ENDIF

#### SET FILTER TO MONTH(mdate) - mno AND

YEAR(mdate) = xyr

publ samt,sgt,scomm,swtax,strade store 0 to samt,sgt,scomm,swtax,strade sum amt to samt sum gt to sgt sum comm to scomm sum wtax to swtax sum trade to strade

REPORT FORM reredsales PREVIEW

CASE prval 8

IF USED("tcash")

SELE teash

ELSE

SELE 0 USE teash

SPE ROBE

ENDIF

# SET FILTER TO MONTH(mdate) mno AND

YEAR(mdate) = xyr

publ s1amt,s1gt,s1comm,Yhtax,s1commall,s1trade store 0 to s1amt,s1gt,s1comm,Yhtax,s1commall,s1trade sum amt to s1amt sum gt to s1gt sum comm to s1comm sum htax to Yhtax sum commall to s1commall sum trade to s1trade REPORT FORM reashsales PREVIEW

```
CASE prval = 9
```

	IF USED("tcash")
	SELF teash
	ELSE
	SELE 0
	USE teash
	FNDIF
	SET FILTER TO MONTH(mdate) - mno AND
YEAR(mdate) xyr	
	publ ntot1.esales1.share1.debtors1.commrec1
	store 0 to ntot1, esales1, share1, debtors1, commrec1
	sum ntot to ntot1 sum csales to csales1
	sum chare to chare l
	sum debtors to debtors l
	sum commrec to commrec1
	REPORT FORM reashbook PREVIEW
	KLI OKT I OKWI ICASHOOOK I KLIVILI W
	CASE prval = 10
	USE tbank IN 1 AGAIN EXCL
	USE tacet IN 2 AGAIN EXCL
	PUBL amt2
	STORF 0 TO amt?
	SFLET
	SUM amt FOR indate – m.mdate TO amt2
	SELE 2
	*SET FILTER TO MONTH(mdate) = mno AND
YEAR(mdate) = xyr	
	publ s2amt,s2cashbk
	store 0 to s2amt,s2cashbk
	sum amt to s2amt
	sum cashbk to s2cashbk
	REPORT FORM rbankbook PREVIEW
	CASE prval = $11$
	IF USED("trefund")
	SELE trefund
	ELSE SELE 0
	USE trefund
	FNDIF
	"SET FILTER TO MONTH(mdate) - mno AND
YEAR(mdate) = xyr	
· · ·	publ_xtotamt,srecacomm,srectax,sse,srecall,salines
	store 0 to xtotamt, srecacomm, srectax, ssc, srecall, salines
	sum recacomm to srecacomm
	sum rectax to srectax
	sum totamt to xtotamt

# sum se to sse sum recall to srecall sum alines to salines REPORT FORM rrefund PREVIEW

# ENDCASE

THISFORM.RELEASE

### ENDPROC

PROCEDURE cbomonth.Valid do case case this.value "JANUARY" mno 1 case this.value == "FEBRUARY" mno = 2case this.value == "MARCH" mno = 3case this.value == "APRIL" mno = 4case this.value == "MAY" mno = 5case this.value == "JUNE" mno = 6"JULY" case this.value mno = 7case this.value == "JANUARY" mno = 1case this.value \_\_\_"AUGUST" mno 8 case this.value == "SEPTEMBER" mno = 9case this.value == "OCTOBER" mno = 10case this.value == "NOVEMBER" mno = 11case this.value == "DECEMBER" mno = 12ENDCASE ENDPROC

PROCEDURE emdelose.Click thisform.release () FNDPROC PROCEDURE emdfirst Click IF USED("tacct") SFEF facet ELSE SELE 0 **USE** tacet ENDIF IF !BOF() GO TOP SCATTER MEMVAR MEMO THIS.ENABLED = .F.ELSE MESSAGEBOX("This is the First Record", "Warning") ENDIF THISFORM.REFRESH THISFORM.cmdlast.ENABLED = .T. **ENDPROC** PROCEDURE emdelose.Click THISFORM.RELEASE ENDPROC PROCEDURE emdprevious.Click IF USED("tacct") SELE tacct ELSE SELE 0 **USE** tacct ENDIF IF NOT BOF() SKIP-1 SCATTER MEMVAR MEMO THISFORM.REFRESH ThisForm.cmdlast.ENABLED - T. FLSE ThisForm.cmdfirst.ENABLED = .F. MESSAGEBOX("This is the First Record".0 + 64, "Warning") THIS.ENABLED = .F.ENDIF THISFORM.cmdnext.ENABLED = .T. **ENDPROC** 

PROCEDURE emdlast. Click

IF USED("tacct") SELE tacct ELSE SELE 0 USE tacct ENDIF  $\mathbf{H}^{\mathbf{F}}$ **TFOF()** GO BOTTOM SCATTER MEMVAR MEMO THISFORM.REFRESH ELSE MESSAGEBOX("This is the Last Record", 0 + 64, "Warning") **ENDIF** THIS.ENABLED = .F.THISFORM.cmdfirst.ENABLED = .T. **ENDPROC** 

PROCEDURE emdnext.Click IF USED("tacet") SELE tacet ELSE SFLF 0 USF tacet ENDIF IF NOT EOF() SKIP 1

```
THISFORM.cmdfirst.ENABLED = .T.
SCATTER MEMVAR MEMO
THISFORM.REFRESH
```

ELSE

```
THISFORM.cmdlast.ENABLED = .F.
MESSAGEBOX("This is the Last Record", 0 + 64, "Warning")
THIS.ENABLED F.
```

÷.,

ENDIF

```
THISFORM.cmdprevious.ENABLED = .T. ENDPROC
```

PROCEDURE emdaddnew.Click IF THIS.CAPTION - "\- Add New"

> THISFORM.SETALL("Readonly",.F.,"Textbox") THISFORM.SETALL("Readonly",.F.,"ComboBox") THISFORM.SETALL("Readonly",.F.,"EDITbox")

```
IF USED("tacet")
                 SELE taect
            ELSE
                 SELE 0
                 USE tacct
            ENDIF
           SCATTER MEMVAR MEMO BLANK
           THISFORM.SETALL("enabled",.F.,"commandbutton")
            THIS.ENABLED = .T.
            THISFORM.cmdclose.ENABLED .T.
            THISFORM.REFRESH
           THIS.CAPTION - "\-Save"
     ELSE
           THISFORM.SETALL("Readonly",.T.,"Textbox")
           THISFORM.SETALL("Readonly",.T.,"combobox")
           THISFORM.SETALL("Readonly",.T.,"editbox")
           THISFORM.SETALL("enabled",.T.,"commandbutton")
           IF USED("tacct")
                 SELE tacct
            ELSE
                 SELE 0
                 USE facet
            ENDIF
                 INSERT INTO tacct FROM MEMVAR
                 THISFORM.RFFRFSH
           THIS CAPTION - "\- Add New"
     ENDIF
ENDPROC
```

PROCEDURE cmddelete.Click

USE tacet EXCLUSIVE ans = MESSAGEBOX("This record will be deleted, Proceed?", 4

+ 32,"Warning")

```
IF ans = 6
DELETE
PACK
IF !EOF()
SKIP
ELSE
SKIP T
ENDIF
```

```
admodify.Click
             RM.SETALL("Readonly", .F., "Textbox")
            JRM.SETALL("Readonly",.F.,"combobox")
           FORM.SETALL("Readonly", F., "EDITbox")
      IF USED("tacet")
            SELE tacet
      ELSE
            SELE 0
            USF facet
      ENDIF
      IF THIS.CAPTION = "\~Modify"
            THIS.CAPTION -- "\<Save"
            THISFORM.SETALL("Readonly", F., "Textbox")
            THISFORM.SETALL("enabled", F., "commandbutton")
            THIS.ENABLED = .T.
            THISFORM.cmdclose.ENABLED = .T.
      ELSE
            GATHER MEMVAR MEMO
            THIS.CAPTION = "\<Modify"
            THISFORM.SETALL("Readonly", T., "combobox")
            THISFORM.SETALL("Readonly",.T.,"EDITbox")
            THISFORM.SETALL("Readonly",.T.,"Textbox")
            THISFORM.SETALL("enabled",.T.,"commandbutton")
            THISFORM REFRESH
      ENDIF
ENDPROC
PROCEDURE cmdlast.Click
      IF USED("tmaincash")
            SELE tmaincash
      ELSE
            SELE 0
            USE tmaincash
      ENDIF
      IF
            IEOF()
            GO BOTTOM
            SCATTER MEMVAR MEMO
```

THISFORM.REFRESH

хü

ELSE

MESSAGEBOX("This is the Last Record", 0 + 64, "Warning") ENDIF THIS.ENABLED = .F. THISFORM.cmdfirst.FNABLED = .T. ENDPROC

PROCEDURE emdnext.Click IF USED("tmaincash") SELE tmaincash ELSE SELE 0 USE tmaincash ENDIF

> IF NOT EOF() SKIP 1 THISFORM.cmdfirst.ENABLED = .T. SCATTER MEMVAR MEMO THISFORM.RFFRFSH

#### **FESE**

THISFORM.cmdlast.FNABI ED = .F. MESSAGEBOX("This is the Last Record", 0 ± 64, "Warning") THIS.ENABLED =: .F.

ENDIF

```
THISFORM.cmdprevious.ENABLED = .T. ENDPROC
```

PROCEDURE emdaddnew.Click IF THIS.CAPTION = "\<Add New"

> THISFORM.SETALL("Readonly"..F.,"Textbox") THISFORM.SETALL("Readonly"..F.,"ComboBox") THISFORM.SETALL("Readonly",.F.,"EDITbox")

IF USED("tmaincash") SFLF tmaincash ELSE SELE 0 USE tmaincash

ENDIF

SCATTER MEMVAR MEMO BLANK THISFORM.txtuser name.SETFOCUS .rORM.SETALL("enabled",.F.,"commandbutton") IIS.ENABLED = .T. IHISFORM.cmdclose.ENABLED = .T. THISFORM.REFRESH THIS.CAPTION = "\<Save"

ELSE

THISFORM.SETALL("Readonly",.T.,"Textbox") THISFORM.SETALL("Readonly",.T.,"combobox") THISFORM.SETALL("Readonly",.T.,"editbox") THISFORM.SETALL("enabled",.T.,"commandbutton")

HE USED("tmaincash") SELE tmaincash

ELSE

SELE 0

USE tmaincash

ENDIF

GO TOP LOCATE FOR ALLTR(user\_name) = ALLTR(m.user\_name) AND ALLTR(user\_password) = ALLTR(m.user\_password) IF FOUND()

MESSAGEBOX("This Record Already Exists!",

"Warning.")

THISFORM.REFRESH

ELSE

INSERT INTO tmaincash FROM MEMVAR THISFORM.REFRESH

ENDIF

THIS.CAPTION \_\_\_\_\_Add New"

ENDIF ENDPROC

PROCEDURE cmddelete.Click IF USED("tmaincash") SELE tmaincash ELSE SELE 1 USE tmaincash EXCLUSIVE ENDIF

ans MESSAGFBOX("This record will be deleted, Proceed?", 4 + 32,"Warning") IF ans = 6

DELETE

PACK IF IEOF() SKIP ELSE SKIP-1 **ENDIF** ENDIF THISFORM.REFRESH **ENDPROC** PROCEDURE emdmodify.Click THISFORM.SETALL("Readonly", F., "Textbox") THISFORM.SETALL("Readonly",.F.,"combobox") THISFORM.SETALL("Readonly",.F.,"EDITbox") HEUSED("tmaineash") SELE tmaincash ELSE SELE 0 USE tmaincash ENDIF IF THIS.CAPTION = "\<Modify" THIS.CAPTION = "\<Save" THISFORM.SETALL("Readonly", F., "Textbox") THISFORM.SETALL("enabled",.F.,"commandbutton") THIS, ENABLED = .T.THISFORM.cmdclose.ENABLED .T. ELSE GATHER MEMVAR MEMO THIS.CAPTION = "\<Modify" THISFORM.SETALL("Readonly",.T.,"combobox") THISFORM.SETALL("Readonly", T., "EDITbox") THISFORM.SETALL("Readonly",.T.,"Textbox") THISFORM.SETALL("enabled", T., "commandbutton") THISFORM.REFRESH **ENDIF ENDPROC ENDDEFINE**