ATM TRANSACTION

A PROJECT REPORT

Submitted by

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of

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

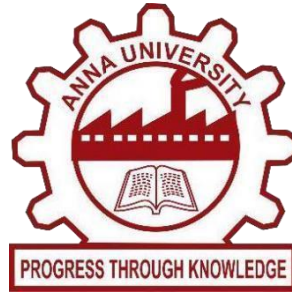## St. JOSEPH'S COLLEGE OF ENGINEERING

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119

ANNA UNIVERSITY: CHENNAI

July-2023

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report is the bonafide work of
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who carried out the project under my supervision.

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SEMESTER II

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The report of the project work submitted by the above students in partial fulfillment for the award of Bachelor of Technology Degree in Artificial Intelligence and Machine Learning of Anna University was confirmed to be report of the work done by the above students and then evaluated.

Submitted to Project and Viva Examination held on_____.

INTERNAL EXAMINER **EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

At the outset we would like to express our sincere gratitude to the beloved **Chairman, Dr.Babu Manoharan, M.A.,M.B.A.,Ph.D.,** for his constant guidance and support.

We would like to express our heartfelt thanks to our respected **Managing Director Mrs. S. Jessie Priya, M.Com.,** for her kind encouragement and blessings.

We wish to express our sincere thanks to our **Executive Director Mr. B. Shashi Sekar, M.Sc.,** for providing ample facilities in the institution.

We express our deepest gratitude and thanks to our beloved **Principal Dr.Vaddi Seshagiri Rao, M.E., M.B.A., Ph.D., F.I.E.,** for his inspirational ideas during the course of the project.

We wish to express our sincere thanks and gratitude to **Dr.V. Muthulakshmi, M.E.,Ph.D.,** Head of the Department , Department of Information Technology & Artificial Intelligence and Machine Learning St. Joseph's College of Engineering for her guidance and assistance in solving the various intricacies involved in the project.

It is with deep sense of gratitude that we acknowledge our indebtness to our supervisor **Mrs.D.Jeya Priya,M.E.,** for her expert guidance and connoisseur suggestion.

Finally we thank our department staff members who helped us in the successful completion of this project.

ABSTRACT

The ATM Program in C is written in C programming language which provides an ease to read and comprehend the instructions used. This program for using ATM machine is built on the concept of handling an account individually.

It can be defined as actually simple code structure of ATM transaction process to be understood by a user. For implementing this project, we may have to use function but in the meantime for easy coding, we may have to switch cause statement.

From this ATM program in C, we can even use the mini-program for checking the total balance, depositing the amount, and withdrawing the amount from the account definitely since it is not time overwhelming.

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ATM

❖ INTRODUCTION

An automated teller machine (ATM) is an electronic telecommunications device that enables customers of financial institutions to perform financial transactions, such as cash withdrawals, deposits, funds transfers, balance inquiries or account information inquiries, at any time and without the need for direct interaction with bank staff.

❖ PROBLEM DESCRIPTION

This C Program performs ATM transaction. The types of ATM transaction are

1) Balance checking

2) Cash withdrawal

3) Cash deposition.

❖ PROBLEM SOLUTION

1. Firstly initialize the ATM pin and amount with some random number.

2. Take the ATM pin as input.

3. If the input pin is equal to the initialized pin, then do the further operations.

4. Use SWITCH statement to do the operations like Balance checking, Cash withdrawal, Cash deposition etc.

5. Use WHILE loop to terminate or restart the process.

❖ SOURCE CODE

```c
#include <stdio.h>
unsigned long amount=1000, deposit, withdraw;
int choice, pin, k;
char transaction ='y';

void main()
{
while (pin != 1520)
{
printf("ENTER YOUR SECRET PIN NUMBER:");
scanf("%d", &pin);
if (pin != 1520)
printf("PLEASE ENTER VALID PASSWORD\n");
}
do
{
printf("********Welcome to ATM Service*************\n");
printf("1. Check Balance\n");
printf("2. Withdraw Cash\n");
printf("3. Deposit Cash\n");
printf("4. Quit\n");
printf("********************?*************************?*\n\n");
printf("Enter your choice: ");
```

```c
scanf("%d", &choice);
switch (choice)
{
case 1:
printf("\n YOUR BALANCE IN Rs : %lu ", amount);
break;
case 2:
printf("\n ENTER THE AMOUNT TO WITHDRAW: ");
scanf("%lu", &withdraw);
if (withdraw % 100 != 0)
{
printf("\n PLEASE ENTER THE AMOUNT IN MULTIPLES OF 100");
}
else if (withdraw >(amount - 500))
{
printf("\n INSUFFICENT BALANCE");
}
else
{
amount = amount - withdraw;
printf("\n\n PLEASE COLLECT CASH");
printf("\n YOUR CURRENT BALANCE IS%lu", amount);
}
break;
case 3:
printf("\n ENTER THE AMOUNT TO DEPOSIT");
scanf("%lu", &deposit);
```

```c
amount = amount + deposit;
printf("YOUR BALANCE IS %lu", amount);
break;
case 4:
printf("\n THANK U USING ATM");
break;
default:
printf("\n INVALID CHOICE");
}
printf("\n\n\n DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n): \n");
fflush(stdin);
scanf("%c", &transaction);
if (transaction == 'n'|| transaction == 'N')
k = 1;
}
while (!k);
printf("\n\n THANKS FOR USING OUT ATM SERVICE");
}
```

❖ OUTPUT

```
/tmp/I2RdRWy8yE.o
ENTER YOUR SECRET PIN NUMBER:1520
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
*****************?************************?*

Enter your choice: 1
YOUR BALANCE IN Rs : 1000


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
*****************?************************?*

Enter your choice: 2
ENTER THE AMOUNT TO WITHDRAW: 200
PLEASE COLLECT CASH
YOUR CURRENT BALANCE IS800
```

```
Output                                                    Clear

 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
******************?************************?*


Enter your choice: 3
ENTER THE AMOUNT TO DEPOSIT5000
YOUR BALANCE IS 5800


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
******************?************************?*


Enter your choice: 1
YOUR BALANCE IN Rs : 5800


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
```

```
Output                                                    Clear

 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
*****************?*************************?*

Enter your choice: 4
THANK U USING ATM


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
*****************?*************************?*

Enter your choice: 4
THANK U USING ATM


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
```

```
*********Welcome to ATM Service*************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
******************?************************?*

Enter your choice: 4
THANK U USING ATM


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):
********Welcome to ATM Service**************
1. Check Balance
2. Withdraw Cash
3. Deposit Cash
4. Quit
******************?************************?*

Enter your choice: n
THANK U USING ATM


 DO U WISH TO HAVE ANOTHER TRANSCATION?(y/n):


 THANKS FOR USING OUT ATM SERVICE
```

❖ PROGRAM EXPLANATION

1.Initialize the variables pin, amount and transaction with 1520, 1000 and 'y' respectively.

2. Ask for the pin from user. If the input pin is equal to 1520, then allow for the further operations.

3. Use switch statement to do the operations like Check Balance, Withdraw Cash, Deposit Cash and Quit.

4. For Check Balance simply print the variable amount as output and exit.

5. For Withdraw Cash, first ask the amount to withdraw and store it in the variable withdraw.

6. If withdraw % 100 != 0, then ask user to enter the amount in multiplies of 100.

7. If withdraw amount is greater than (amount-500), then print the output as "INSUFFICENT BALANCE".

8. Otherwise subtract the variable withdraw from variable amount, print the amount and exit.

9. For deposit operation, ask the user for amount and store it in the variable

deposit.

10. Add the variable deposit to variable amount, print the amount and exit.

11. If quit, then finally ask the user if they wish to continue or not. Ask them to type y/n and store it in the variable transaction.

12. If variable transaction is y/Y, then continue the operation. Otherwise terminate the while loop by assigning 1 to variable k.

❖ CONCLUSION

In conclusion,the ATM transaction program to perform operations like check balance,withdraw cash and deposit cash using c programming language has been successfully accomplished.

❖ REFERENCE

BOOK:

PROGRAMMING IN C (SECOND EDITION)- REEMA THAREJA

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