

ATM TRANSACTION

A PROJECT REPORT

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in

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St. JOSEPH'S COLLEGE OF ENGINEERING

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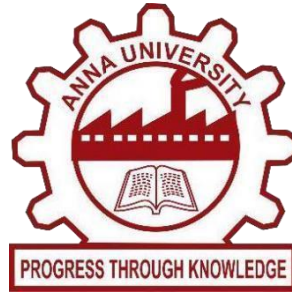
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BONAFIDE CERTIFICATE

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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

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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.

PROGRAM

```
#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: ");
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 INSUFFICIENT 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);  
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 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

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 IS 800

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 DEPOSIT 5000

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) :

*****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*****

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 $\text{withdraw} \% 100 \neq 0$, 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 "INSUFFICIENT 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.

REFERENCE

BOOK:

PROGRAMMING IN C (SECOND EDITION)-
REEMA THAREJA
