



DEPARTMENT OF BASIC SCIENCE AND HUMANITIES

INSTITUTE OF ENGINEERING AND MANAGEMENT, KOLKATA

## **“ATM Management System”**

**Submitted by:-**

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**Section:** E

**Class Roll Number:** 05

**Stream:** C.S.E(I.O.T)

**Subject:** Programming for Problem Solving **Subject**

**Code:** ESC-103 (Pr)

Under the supervision of:**Prof.**

**Swarnendu Ghosh**

**Academic Year: 2022-26**

(PROJECT REPORT SUBMITTED IN FULFILLMENT OF THE  
REQUIREMENTS FOR THE SECOND SEMESTER)



## **CERTIFICATE OF RECOMMENDATION**

We hereby recommend that the project prepared under our supervision by **Sambhram Banerjee**, entitled “**ATM Management System**” be accepted in fulfillment of the requirements for the degree of fulfillment of the second semester.

## ***1. Introduction:***

This project is assigned to me for developing a Library Management System with the help of basic C programming language.

The basic aim of the project is to create a library management system where we need to put up basic book and reader details and thereby with the help of c programming, we have to create a portal (.exe file) for adding new books, searching books, adding new reader, searching readers, issuing books, submitting books, deleting books, deleting readers and finally seeing all the books in the library at a glance.

## ***2. Variable Description:***

The different variables used in this project are listed under:-

balance: an integer variable that stores the current balance of the user's account  
pin: an integer variable that stores the user's PIN  
The program has the following functions:

withdraw(): allows the user to withdraw money from their account  
deposit(): allows the user to deposit money into their account  
view\_balance(): allows the user to view their current balance  
change\_pin(): allows the user to change their PIN  
The program does not use any external files or datasets.

## ***3. Function Description:***

The different functions (structures) used in this project are listed under:-

1. reader- For storing the required reader details *vis.* name, id and due date.
2. book- For storing the required book details *viz.* name, author, availability and reader info.

## ***4. Programs:***

## *ATM Management System.c*

```
##include int main() {
int pin = 1234; int
balance = 5000; int
option, enteredPin,
withdrawAmount,
depositAmount;
printf("Welcome to the
ATM
Simulator!\n"); while
(1) { printf("\nPlease
enter your PIN: ");
scanf("%d",
&enteredPin); if
(enteredPin != pin) {
printf("Invalid PIN.
Please try again.\n");
continue; }
printf("\nATM
Menu:\n"); printf("1.
Check Balance\n");
printf("2.
Withdraw\n");
printf("3.
Deposit\n");
printf("4. Exit\n");
printf("Enter your
option: ");
scanf("%d", &option);
switch (option) { case
1: printf("Your
current balance is:
$%d\n", balance);
break; case 2:
printf("Enter the
amount to withdraw:
"); scanf("%d",
&withdrawAmount); if
(withdrawAmount >
balance) {
printf("Insufficient
balance.\n"); } else {
balance -=
withdrawAmount;
printf("Withdrawal
successful. Remaining
balance is: $%d\n",
balance); } break;
case 3: printf("Enter
the amount to deposit:
```

```
"); scanf("%d",
&depositAmount);
balance +=
depositAmount;
printf("Deposit
successful. Updated
balance is: %d\n",
balance); break; case
4: printf("Thank you
for using the ATM.
Goodbye!\n"); return
0; default:
printf("Invalid
option. Please try
again.\n"); break; }
} return 0; }
```

## 5. *Outputs:*

Sample outputs (screenshots) to demonstrate the functionalities in programs are listed below.

## 1.Invalid

```
PS C:\Users\HP\OneDrive\Desktop\c tutorials\.vscode> cd "c:\Users\HP\OneDrive\Desktop\c tutorials\.vscode\2nd part\" ; if ($?) { gcc collegeproject.c -o collegeproject } ; if ($?) { .\collegeproject }
Welcome to the ATM Simulator!

Please enter your PIN: 2
Invalid PIN. Please try again.

Please enter your PIN: 
```

```
2. 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.

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.

```

**THANK YOU!!**