

<<ATM MACHINE - BANK>>

21CSS101J – PROGRAMMING FOR PROBLEM SOLVING

Mini Project Report

Submitted by

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(Under Section 3 of UGC Act, 1956)

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PROBLEM STATEMENT

ATM is another type of banking where the most frequently type of transaction made is withdrawal. A user may withdraw as much amount as he wants until his account holds a sum greater than his withdrawal amount.

ATM is completely automated and there is no necessity of the ATM center being placed at the bank itself. It can be placed in the shopping malls, airports, railway stations etc.

The system will retain information on the entire customer who has necessity rights to access the service. It will contain the balance amount in the account.

METHODOLOGY/PROCEDURE

Open Python Compiler

For our project we are using PyCharm – Community Version developed by JetBrains.

Creating a New Project

Use the new project option at the top left and save your file with .py extension.

"C:/Users/Shubham

Jain/PycharmProjects/pythonProject/main.py"

Using the Console

Use the PyCharm Python Console to write the code in the interface.

Taking Input from User

Use the print statements to display Welcome screen in front of user

```
#ATM Program
print("Welcome to SRM BANK")
```

Take input as ATM PIN using input() function from the user. If the system verifies the PIN. Allow the user to access further available options. Print Wrong PIN Number if the PIN is Incorrect.

Print Transaction Options

Using the print() function display 3 options in front of user:

- Withdraw Money
- Balance Enquiry
- Fast Cash

```
print("1-Withdraw Money")
print("2-Balance Enquiry")
print("3-Fast Cash")
c = int(input("Please Choose Transactions: "))
```

Using Assignment Operator

Assign a variable to the choices mentioned above. Use the assignment operator “==” to check the input from the user.

Using Control Statements

Use simple if – else and elif statements in the program to check different condition according to input from user and print necessary output.

CODING (PYTHON)

```
#PROGRAM TO RUN AN ATM MACHINE OF A BANK

print("Welcome to SRM BANK")

p = int(input("Enter your 4 digit PIN number: "))

m = 25000

if(p == 1234):

    print("1-Withdraw Money")

    print("2-Balance Enquiry")

    print("3-Fast Cash")

    c = int(input("Please Choose Transactions: "))

    if c == 1:

        w = int(input("Enter Amount to Withdraw:
"))

        if (w < m ):

            print("Please take your Amount:", w)

            print("Balance Left:",m-w)

        else:

            print("Insufficient Balance")

    elif(c==2):

        print("Your Available Balance is : ",m)

    elif (c == 3):

        print("1->5,000")

        print("2->10,000")
```

```
print("3->15,000")

print("4->20,000")

f = int(input("Enter Fast Cash Option: "))

if (f == 1 and 5000 < m):

    print("Please take Cash 5000")

    print("Balance Left",m - 5000)

elif (f == 2 and 10000 < m):

    print("Please take Cash 10000")

    print("Balance Left",m - 10000)

elif (f == 3 and 15000 < m):

    print("Please take Cash 15000")

    print("Balance Left",m - 15000)

elif (f == 4 and 20000 < m):

    print("Please take Cash 20000")

    print("Balance Left",m - 20000)

else:

    print("Invalid Fast Cash option")

else:

    print("Invalid Choice")

else:

    print("Wrong PIN Number")
```


RESULTS

WELCOME SCREEN

```
Welcome to SRM BANK
Enter your 4 digit PIN number:
```

PIN VALID/INVALID

VALID:

```
Welcome to SRM BANK
Enter your 4 digit PIN number: 1234
1-Withdraw Money
2-Balance Enquiry
3-Fast Cash
Please Choose Transactions: |
```

INVALID:

```
Welcome to SRM BANK
Enter your 4 digit PIN number: 9876
Wrong PIN Number
```

WITHDRAW MONEY OPTION

```
Welcome to SRM BANK
Enter your 4 digit PIN number: 1234
1-Withdraw Money
2-Balance Enquiry
3-Fast Cash
Please Choose Transactions: 1
Enter Amount to Withdraw: 5000
Please take your Amount: 5000
Balance Left: 20000
```

```
Process finished with exit code 0
```

BALANCE ENQUIRY OPTION

```
Welcome to SRM BANK
Enter your 4 digit PIN number: 1234
1-Withdraw Money
2-Balance Enquiry
3-Fast Cash
Please Choose Transactions: 2
Your Available Balance is : 25000

Process finished with exit code 0
|
```

FAST CASH OPTION

```
Welcome to SRM BANK
Enter your 4 digit PIN number: 1234
1-Withdraw Money
2-Balance Enquiry
3-Fast Cash
Please Choose Transactions: 3
1->5,000
2->10,000
3->15,000
4->20,000
Enter Fast Cash Option: 2
Please take Cash 10000
Balance Left 15000

Process finished with exit code 0
|
```

CONCLUSION

The ATM should provide easy access to the data for the customer. It should also have a highly secure interface so that one can take money on behalf of others. Security is one of the main aspects in ATM.

ASSIGNMENT

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