CORE JAVA PROJECT

UNDER THE GUIDENCE OF TRAINER MRS.INDRAKA MALI

Edubridge India Private Limited

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PROJECT TITLE: ATM INTERFACE

Aim:

- To withdraw, deposit and check the balance in the account without any interruptions in the Atm.

Language:

- Java

Software Requirements:

- Eclipse

Synopsis:

In this ATM interface there are four main operations. That main operations are:

- Withdraw – To withdraw the money
- Deposit – To deposit the money
- Balance check – To check the balance after withdraw/deposit.
- Exit – Exit from the process.

In the ATM Program, the user has to select an option from the options displayed on the console screen. The options are related to withdraw the money, deposit the money, check the balance and exit.

Initial Setup:

Create a new java project in the eclipse.

Project Name: ATM Interface.

Package Name: atm_interface.

Class Name: ATM

In Main Method:

- Declare variables

```
float amount=5000;
float withdrawAmount,depositAmount;
int pinno;
int choice;
```

  - ✓ Float amount value is a balance already available in the account.
  - ✓ Float withdraw and deposit amount is to store the input value of withdraw or deposit amount given by user.
  - ✓ Integer Pin No. is to store the input value of pin no given by user. It stores the value in integer datatype.
  - ✓ Integer choice is to store the input value of the user choice. It also stores the value in integer datatype.

- Import the Scanner from the util package. Using the Scanner, get the input for the above things from the user.

  Package: `import java. util. Scanner;`

- While Loop is used to repeat the function of the menu driven, which is for ask the pin no, withdraw amount etc.,

```
while(true)
```

- Inside the while loop, these print statements are the options given to the user to select their performance, what they want to do.

```
System.out.println("1. Deposit");
System.out.println("2. Withdraw");
System.out.println("3. Check Balance");
System.out.println("4. Exit");
System.out.println("Enter your choice");
```

- Basically, if we want to write a menu driven program Switch is used. Inside the switch, we have different cases.

- In Case 1 coding is to deposit money in the account. If user enter the first option in the main menu this will execute.

```
case 1:
System.out.println("Enter the amount to be deposit");
depositAmount=s.nextFloat();
amount=amount+depositAmount;
System.out.println("Your money has been DEPOSITED
SUCCESSFULLY");
break;
```

- After user enter the amount to deposit, this step add the available balance and deposit amount.

- In Case 2 coding is to withdraw money in the account.

```
case 2:

   System.out.println("Enter the amount to be withdraw");
   withdrawAmount=s.nextFloat();

    if(withdrawAmount>amount)
    {
    System.out.println("Insufficient Balance.....! can't
withdraw");
   System.out.println("Available Balance: "+amount);
    }
```

- If the withdraw amount is more than the available balance if statement will execute. This statement gives the output like “Insufficient Balance….! Can’t withdraw”.

```
else {
  amount=amount-withdrawAmount;
  System.out.println("Please collect your cash");
  System.out.println("Available Balance: "+amount);
    }
  break;
```

- If the withdraw amount is less than the available balance else statement will execute.

- In Case 3 code is to display the available balance in the account.

```
System.out.println("Balance: "+amount);
break;
```

- In Case 4 code is to exit from the program and print the exit statement.

```
System.out.println("Exit....");
break;
```

- In Default statement, if the user gives the wrong option or out of the option, it prints the statement “Invalid Option” in the console.

```
System.out.println("Invalid");
```

- After the switch statement continue the below code of the while loop to repeat the cycle of the switch case.

```
System.out.println("Do you want to continue (Y/N)");

char option=s.next().charAt(0);

if(option=='n')

break;
```

- Finally, the program will print “Thank You…”.

```
System.out.println("Thank you...");
```

PROGRAM CODE:

```
package atm_interface;

import java.util.Scanner;

public class ATM {

    public static void main(String[] args) {
```

```
        float amount=5000;

        float withdrawAmount,depositAmount;
        int pinno;

        int choice;

        Scanner s=new Scanner(System.in);
while(true) {
            System.out.println("****WELCOME TO IDFC ATM****");

            System.out.println("Enter Pin Number");

            pinno=s.nextInt();

            if(pinno==1410) {

            System.out.println("1. Deposit");

            System.out.println("2. Withdraw");

            System.out.println("3. Check Balance");

            System.out.println("4. Exit");

            System.out.println("Enter your choice");

            choice=s.nextInt();

    switch(choice) {
    // to deposit the amount

    case 1:

    System.out.println("Enter the amount to be deposit");

    depositAmount=s.nextFloat();
```

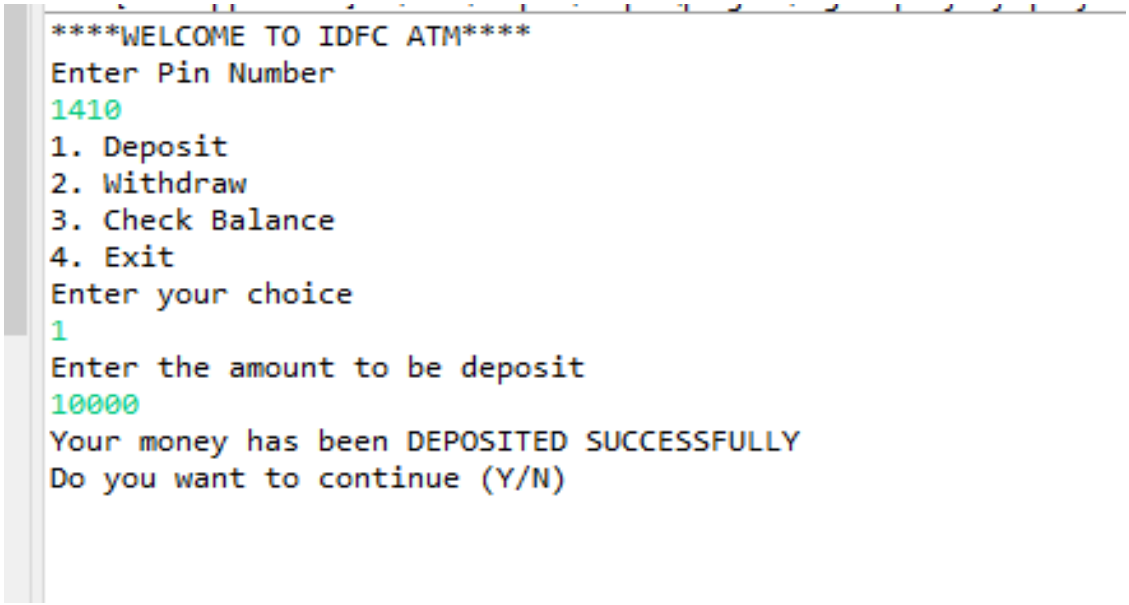
```
     amount=amount+depositAmount;

     System.out.println("Your money has been DEPOSITE
SUCCESSFULLY");

     break;


//to withdraw the amount

    case 2:

    System.out.println("Enter the amount to be withdraw");

     withdrawAmount=s.nextFloat();

     if(withdrawAmount>amount) {

     System.out.println("Insufficient Balance.....! can't
withdraw");

     System.out.println("Available Balance: "+amount);

     }

     else {

       amount=amount-withdrawAmount;

       System.out.println("Please collect your cash");

       System.out.println("Available Balance: "+amount);

           }

       break;
```

d

```
//to Display the available balance

case 3:

       System.out.println("Balance: "+amount);

          break;

//to exit the program


     case 4:

          System.out.println("Exit....");
          break;


     default:

           System.out.println("Invalid");

               }

               }
else {

          System.out.println("Please enter the valid Pin No");

               }
// for repeat the process

          System.out.println("Do you want to continue (Y/N)");

           char option=s.next().charAt(0);

           if(option=='n')

                    break;
```

```
        }

        System.out.println("Thank you...");
    }

}
```

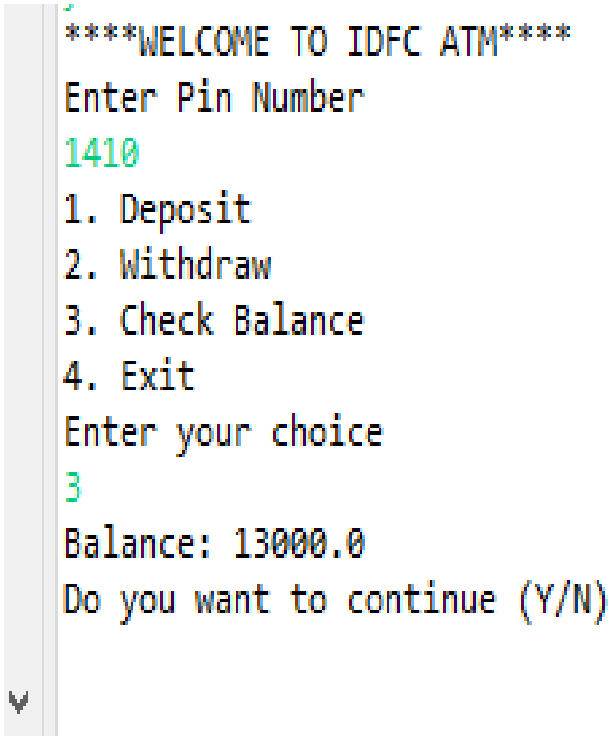
OUTPUT



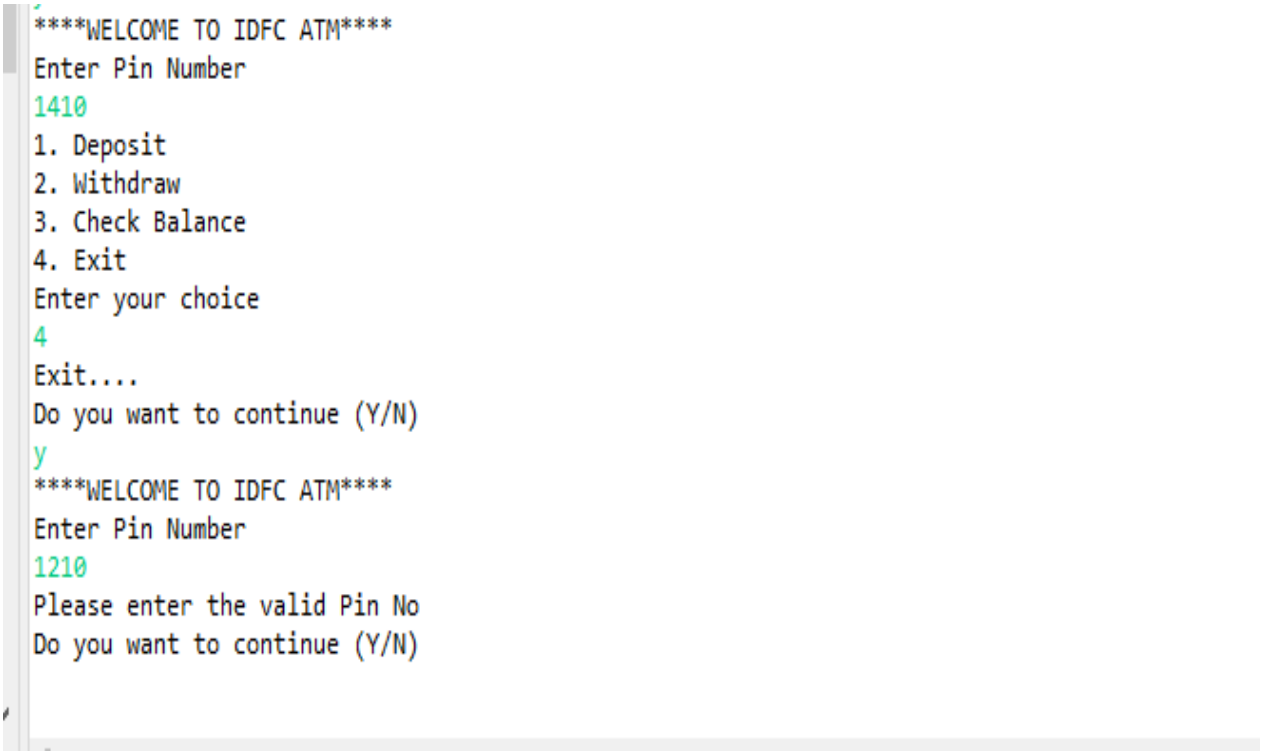
Above output is user choose the first option, code deposited the money and print the deposited successfully.

```
Your money has been DEPOSITED SUCCESSFULLY
Do you want to continue (Y/N)
y
****WELCOME TO IDFC ATM****
Enter Pin Number
1410
1. Deposit
2. Withdraw
3. Check Balance
4. Exit
Enter your choice
2
Enter the amount to be withdraw
2000
Please collect your cash
Available Balance: 13000.0
Do you want to continue (Y/N)
```

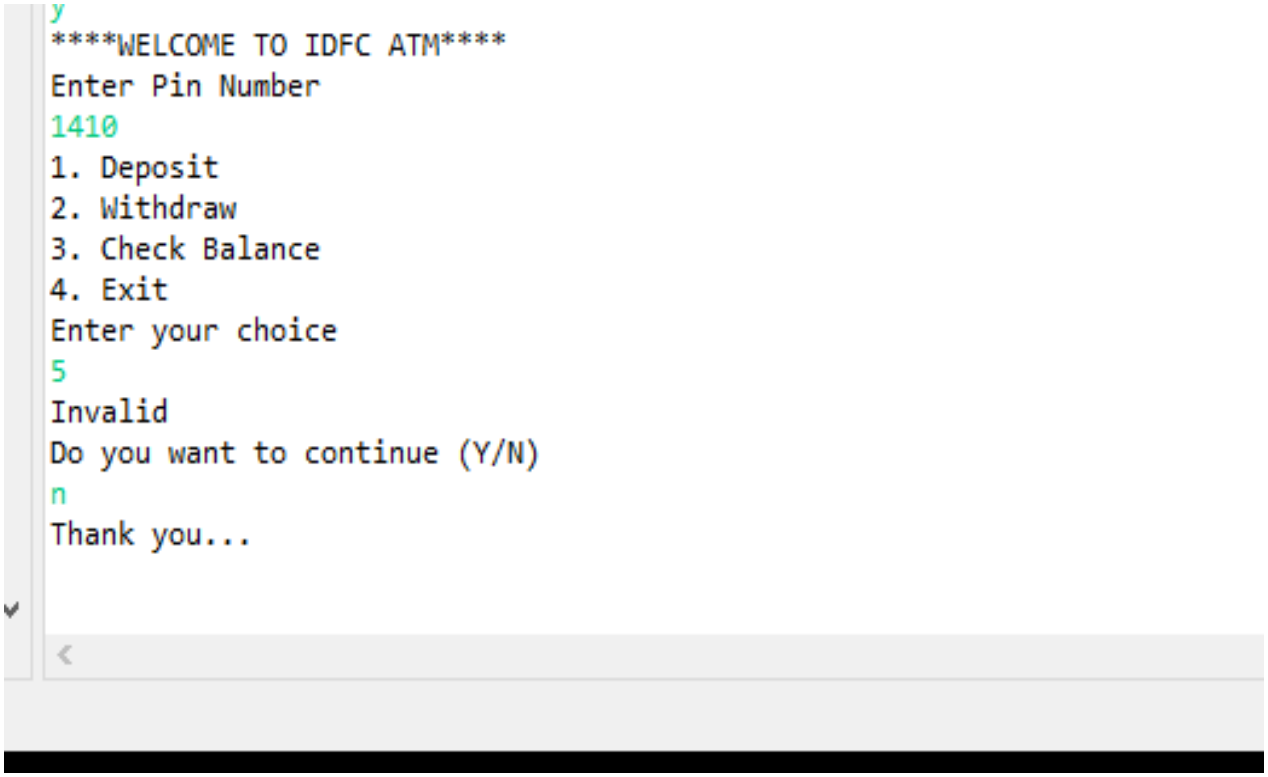
In this above picture, user choose the second option and code was executed successfully.



The user selects the third option to display the available balance in the account.



Exit the Process and if the user gave the wrong Pin No, it gives the error message like “Please enter the valid pin number”.



- If the user give the invalid option, console shows the error message like “Invalid”.

- At last, user gives ‘n’ (No) Exit from the program and print “Thank you”.