Comprehensive Definition:

Create a program to simulate the working of ATM system. A user can have an account in the bank and the ATM asks for the user pin the user can withdraw at most Rs. 20,000 from the account which is linked with her bank system. Also, it is not possible to withdraw the amount greater than the total amount present in the linked bank account. The pin of the user's debit card should not be visible. Use appropriate concepts of OOP to handle the user created exceptions.

Java Program files.

Name of file: **User_portal**

File purpose: The main purpose of this java file is that is asks the user it's current state. Like he is opening a account or already have an account.

```
import java.io.*;
import java.util.Scanner;
public class User_portal
{
    public static void main(String args[]) throws IOException
    {
        //handles an exception
        Welcome();
        user();//forming a static interface for user
    }
    static void user() throws IOException
    {
        int choice;
        Scanner sc=new Scanner(System.in);
        System.out.println("\n1. Sign Up");
        System.out.println("\n2. Login");
        System.out.println("\n3. Exit");
}
```

```
System.out.print("\nEnter Your Current State: ");
      choice=sc.nextInt();//asking the choice
      switch(choice)
         case 1:
            New User user = new New User();
            user.data();//calling function of New_User class
         case 2:
            Old_User user1 = new Old_User();
            user1.operation();//calling function of Old User class
         case 3:
            System.out.println("\n----- THANKYOU -----
\n");
            System.exit(0);
         default:
            System.out.println("\nEnter a valid Choice\n");
      sc.close();
   static void Welcome() {
      System.out.println(
      System.out.println(
           .....");
      System.out.println(" \t\t\t\t\t\t\tTHE MOST EASIEST WAY FOR TRANSACTION");
      System.out.println(
\n\n");
   }
```

Name of file: New_User

File purpose: When the user is new to the bank, he initially deposits some amount of money into it's account by creating it with is class. Where he has to choose for a PIN no. which is one of the identities of user.

```
import java.io.*;
import java.util.Scanner;
public class New User
        String User Name;
        private String pin;//for privary purpose only child can activate this dat
        String Bank Name;
        private String Card Num;//same for the card Number
        int Balance;
        Scanner sc=new Scanner(System.in);
        void data() throws IOException
            File f1 = new File("Record.txt");//locating a pointer at the start of
 a file
            FileWriter f = new FileWriter(f1, true); // Here due to lack of charc
ter forming error can't use this
            PrintWriter pw = new PrintWriter(f);// It is comparitively reliable
            System.out.print("\n-> Full Name: ");
            User_Name= sc.nextLine();
            System.out.print("\n-> Bank Name: ");
            Bank_Name=sc.nextLine();
            System.out.print("\n-> Amount to be Deposited: ");
            Balance=sc.nextInt();
```

```
String s="\n-> Enter Your Pin number: ";
          Pin Hack p =new Pin Hack();//calling a class for scanning PIN
           pin=p.Pin(s);
           pin=pin.trim();//trimming for safety purpose
           String pin2=pin;//storing for checking again
          System.out.println();
           s="\n-> Please confirm Your Pin: ";
           pin=p.Pin(s);
           pin=pin.trim();
          if(pin2.equals(pin)==true)//if they are same
              System.out.println("\n----- Pin Confirmed -----\n");
           else
              System.out.println("\n------ Please Enter Pin correctly ----
----\n");
              s="\n-> Enter Your Pin again: ";
              pin=p.Pin(s);
              pin=pin.trim();//Giving a chance
           int num =(int)(Math.random()*1000000000);//generating a random no. fo
r Card Number
           Card Num = Integer.toString(num);
          System.out.println("\n-----
 Please Note Down Your Alloted Card Number -----\n");
          System.out.println("\n Your Card Number is: "+Card_Num);
           pw.write("\nCard Number: "+Card_Num);
           pw.write("\nPin: "+pin);
           pw.write("\n"+User_Name+"'s Balance: " +Balance);
           pw.write("\nUser Name: " +User_Name);
           pw.write("\nBank Name: " +Bank_Name);//writing whole data into the fi
le called Record
          pw.flush();//to clear any buffer if present
```

```
pw.close();//closing the file
}
```

Name of file: Old_User

File purpose: When the user already has a bank account, and comes to the ATM then he is asked for the transactions he need to perform i.e. Transfer of money, depositing money, withdrawing money and Enquiry of Balance and thus one of its method calls the respective class using object.

```
import java.io.*;
import java.util.Scanner;
public class Old_User
{
    int choice;
    Scanner sc=new Scanner(System.in);

    void operation() throws IOException
    {
        System.out.println("\n*************** Select Your Transaction *********
*****\n");
        System.out.print("\n1. Transfer \t\t\t 2. Balance Enquiry");
        System.out.println("\n\n3. Deposit Money \t\t 4. Withdraw Money");
        System.out.println("\n5. Exit");
        System.out.print("\n-> Enter Your Choice: "); //asking choice choice=sc.nextInt();

        switch(choice)
        {
            case 1:
```

```
System.out.println("\n------ Welcome to Transfer Mode -
       ---\n");
             Transfer t = new Transfer();
             t.transfer_amt();//calling specific function
             break;
         case 2:
             System.out.println("\n-----
Welcome to Balance Inquiry Mode -----\n");
             Balance_Inquiry bi =new Balance_Inquiry();
             bi.inquiry();//calling its function
             break;
         case 3:
             System.out.println("\n----- Welcome to Deposit Mode -
        -----\n");
             Deposit b=new Deposit();
             b.deposit_mon();
             break;
         case 4:
             System.out.println("\n------ Welcome to Withdraw Mode-
            ----\n");
             Withdraw w=new Withdraw();
             w.withdraw_mon();
             break;
         case 5:
             System.exit(0);
             break;//exiting the module
         default:
             System.out.println("Invalid Choice");
             //user();
```

Name of file: Transfer

File purpose: Here it first checks the account holder's balance using File pointer, while traversing the whole file finds the correct place and stores the value similarly the one whose account money is deposited is found by the same process into this and balance is modulated accordingly.

```
import java.io.*;
import java.util.Scanner;
public class Transfer extends Old User
    Scanner sc=new Scanner(System.in);
    int flag=0;
    String pin,name,name1;
    String number=new String();
    String temp1="",temp2="";
    int present_amt_acc1,trans_amt,amt,present_amt_acc2,curr_bal_acc2,curr_bal_ac
c1;
    String Old_data="",New_data="";
    void transfer amt() throws IOException
        int val=validate();//calling a function to validate the state of user
        if(val==1)
            System.out.print("\n-
> Enter the amount to be Transfered (in Rs.): ");
            amt=sc.nextInt();//while such user exist, asking the amount to be tra
nsfered
            String arr[]=temp1.split(":");//here using split() splitting the stri
            temp1=arr[1].trim();//trimming for safety purpose
            present amt acc1=Integer.parseInt(temp1);//converting to int
            if(present_amt_acc1>=amt)
```

```
System.out.println("\n----- Transaction is possible -----
 ----\n");
               transaction(amt);//if lunpsum amount is present then only it is g
oing further
           }
           else
               System.out.println("\n-----
 Balance is not sufficient -----");
               operation();//returns to main menu
       operation();
   int validate() throws IOException
       File f1 = new File("Record.txt");
       BufferedReader br = new BufferedReader(new FileReader(f1));//opening a fi
le in read mode
       System.out.println("\n------ Personal Details ------
\n");
       System.out.print("\n-> Please Enter Your Card Number: ");
       number=sc.nextLine().trim();
       System.out.print("\n-> Card Holder's Name: ");
       name=sc.nextLine().trim();//scanning details
       String initial = br.readLine();//here it stores the first line of file an
d then goes further
       while(initial != null && flag==0)
           if(("Card Number: "+number).equals(initial))//checking with the name
           {
               flag=1;
               initial=br.readLine();
               temp2=initial;//storing pin
               temp1=br.readLine();//storing current amount
```

```
else
             initial=br.readLine();
         }
      br.close();
      if(flag==0)
         System.out.println("\n----- No such Card Number exist ----
     --");
         return 0;
      else
         String s="\n-> Enter Your Pin number: ";
         Pin_Hack p1 =new Pin_Hack();
         pin=p1.Pin(s);
         pin=pin.trim();//asking pin
         if(("Pin: "+pin).equals(temp2))//if it gets equal to the data present
in file transaction is possible
             System.out.println("\n-----
Pin Matched Successfully -----\n");
             return 1;
         else
             System.out.println("\n-----
Please enter your Pin again -----
             s="\n-> Enter Your Pin: ";
             pin=p1.Pin(s);
             pin=pin.trim();//giving a chance
             if(("Pin: "+pin).equals(temp2))
                System.out.println("\n-----
Pin Matched Successfully -----\n");
                return 1;
```

```
else
                   System.out.println("\n----- Incorrect Pin -
                  ----\n");
                   return 0;
   void transaction(int amt) throws IOException
       int flag=0;
       String card_num2;
       sc.nextLine();
       System.out.print("\n-
> Enter in which Account you want to transfer Money(in Rs.):
       card_num2=sc.nextLine();
       System.out.print("\n-> Card Holder's Name: ");
       name1=sc.nextLine();//asking details of the person in which it should be
transfered
       File f1 = new File("Record.txt");
       BufferedReader br = new BufferedReader(new FileReader(f1));//110 -
> 100 as a string read
       String initial = br.readLine();//again reading the first line
       while(initial != null && flag==0)
           if(("Card Number: "+card_num2).equals(initial))
               flag=1;
               initial=br.readLine();
               temp1=br.readLine();//storing balance
           else
```

```
initial=br.readLine();
       br.close();//closing file
       if(flag==0)
           System.out.println("\n-----
 No such Card Number exist -----\n");
           operation();//if not returns to the last menu
       else
           String arr[]=temp1.split(":");
           temp1=arr[1].trim();
           present amt acc2=Integer.parseInt(temp1);//for the person in which am
t adds
           curr_bal_acc2 = amt + present_amt_acc2;
           f1 = new File("Record.txt");
           br = new BufferedReader(new FileReader(f1));
           String hack=br.readLine();//again opening the file
           while(hack!=null)
               Old_data=Old_data+hack+System.lineSeparator();//storing whole fil
e data into the string
               hack=br.readLine();
           String ex1=name1+"'s Balance: "+temp1;//forming string to be replaced
           String ex2=name1+"'s Balance: "+curr_bal_acc2;
           New_data=Old_data.replace(ex1,ex2);
           PrintWriter pw = new PrintWriter("Record.txt");// 100 -> 100
           pw.write(New_data);//writing whole data again
           br.close();
           pw.flush();
```

```
pw.close();//closing all pointers
      // The person who transfers the money
      f1 = new File("Record.txt");
      br = new BufferedReader(new FileReader(f1));//110 -> 100 as a string read
      initial = br.readLine();
      int flag1=0;
      while(initial != null && flag1==0)
          if(("Card Number: "+number).equals(initial))
             flag1=1;
             initial=br.readLine();
             temp2=br.readLine();
          else
             initial=br.readLine();
          }
      br.close();
      if(flag1==0)
          System.out.println("\n-----
No such Card Number exist ----");
          operation();
      else
          String arr[]=temp2.split(":");
          temp2=arr[1].trim();
          present_amt_acc1=Integer.parseInt(temp2);//holder
          trans_amt=present_amt_acc1-amt;//modifying its balance
          File f2 = new File("Record.txt");
```

```
br = new BufferedReader(new FileReader(f2));//110 -
> 100 as a string read
           String Old data2="";
           String hack=br.readLine();
           while(hack!=null)
               Old data2=Old_data2+hack+System.lineSeparator();
               hack=br.readLine();
           }
           String ex1=name+"'s Balance: "+temp2;
           String ex2=name+"'s Balance: "+trans_amt;
           New_data=Old_data2.replace(ex1,ex2);//replacing the string after find
ing
           PrintWriter pw = new PrintWriter("Record.txt");// 100 -> 100
           pw.print(New_data);//overwriting whole data into the file
           br.close();
           pw.flush();
           pw.close();
           //closing all pointers
           System.out.println("\n------ Transaction Successfull --
           ----\n");
           operation();
```

Name of file: Balance_Inquiry

File purpose: Here the user can fetch it's current Account Balance just by entering certain details.

```
import java.io.*;
public class Balance_Inquiry extends Transfer
    Balance_Inquiry() throws IOException
    }
    void inquiry() throws IOException
        int flag=0,p2=0;
        String Bank_name="",Balance="";
        File f1 = new File("Record.txt");
        BufferedReader br = new BufferedReader(new FileReader(f1));//110 -
 100 as a string read
        System.out.print("\n-> Please Enter Your Card Number: ");
        number=sc.nextLine();
        System.out.print("\n-> Card Holder's Name: ");
        name=sc.nextLine();//scanning details
        String initial = br.readLine();
        while(initial != null && flag==0)
            if(("Card Number: "+number).equals(initial))
                flag=1;
                initial=br.readLine();
                temp1=initial;//storing pin
                Balance=br.readLine();//stores name
                Bank_name=br.readLine();//stores bank name
                Bank_name=br.readLine();//stores bank name
            else
                initial=br.readLine();
```

```
br.close();
     if(flag==0)
        System.out.println("\n-------
No such Card Number exist -----\n");
        operation();
     else
        String s="\n-> Enter Your Pin:
        Pin Hack p1 =new Pin Hack();
        pin=p1.Pin(s);
        pin=pin.trim();//validating pin
        if(("Pin: "+pin).equals(temp1))
           System.out.println("\n-----
Pin Matched Successfully -----\n");
           p2=1;
        else
           System.out.println("\n-----
Please enter your Pin again -----\n");
           s="\n-> Enter Your Pin: ";
           pin=p1.Pin(s);
           pin=pin.trim();//giving a chance
           if(("Pin: "+pin).equals(temp1))
               System.out.println("\n-----
Pin Matched Successfully -----\n");
              p2=1;
           }
           else
               System.out.println("\n----- Incorrect Pin -
            ----\n");
              operation();
```

```
if(p2==1)
{
    Bank_name=Bank_name.substring(11);//removing initial data

    System.out.println("\n*Details: \n");
    System.out.println("\nAccount Holder: "+name);
    System.out.println("\nCard Number: "+number);
    System.out.println("\nBank Name: "+Bank_name);

    String arr[]=Balance.split(":");
    Balance=arr[1].trim();
    present_amt_acc1=Integer.parseInt(Balance);

    System.out.println("\nYour Current Balance is: "+present_amt_acc1);//printing details
    operation();
    }
}
```

Name of file: Deposit

File purpose: Here when the user wants to Deposit money into its account, first he/she needs to verify using their PIN and then the amount is modulated accordingly.

```
import java.io.*;
public class Deposit extends Transfer
```

```
Deposit() throws IOException
   void deposit_mon() throws IOException
       int x= validate();
       if(x==1)
           System.out.print("\n-
 Enter the amount to be Deposited (in Rs.):\n\n");
           amt=sc.nextInt();//scanning amount to be deposited
           String arr[]=temp1.split(":");
           temp1=arr[1].trim();
           present_amt_acc1=Integer.parseInt(temp1);
           if(amt>0)//if fixes this constrainnt
               int res=deposit(amt);//asking status
               if(res==1)
                   System.out.println(amt +" Rs. Deposited successfully");//prin
ting status
                   operation();
               else
                   operation();
           else
               System.out.println("\n-----
 Can't Deposit This Amount -----\n");
               operation();
       }
       else
```

```
int deposit(int amt) throws IOException
      int flag=0;
      File f1 = new File("Record.txt");
      BufferedReader br = new BufferedReader(new FileReader(f1));//110 -
100 as a string read
      String initial = br.readLine();//taking data line by line
      while(initial != null && flag==0)
          if(("Card Number: "+number).equals(initial))
             flag=1;
             initial=br.readLine();
             temp1=br.readLine();//balance
          else
             initial=br.readLine();
      br.close();//closing file
      if(flag==0)
          System.out.println("\n-----
No such Card Number exist -----\n");
          return 0;
      else
          String arr[]=temp1.split(":");
          temp1=arr[1].trim();
          present_amt_acc2=Integer.parseInt(temp1);//converting balance to int
```

```
int curr_bal_acc2 = amt + present_amt_acc2;
f1 = new File("Record.txt");
br = new BufferedReader(new FileReader(f1));//opening a file
String hack=br.readLine();
String Old_data="";//asigning it to null
while(hack!=null)
    Old data=Old data+hack+System.lineSeparator();//storing data whic
    hack=br.readLine();
String ex1=name+"'s Balance: "+temp1;
String ex2=name+"'s Balance: "+curr_bal_acc2;
New_data=Old_data.replace(ex1,ex2);//replacing data from old to new
PrintWriter pw = new PrintWriter("Record.txt");
pw.write(New_data);//writing whole data
br.close();
pw.flush();
pw.close();
//closing all file pointers
return 1;
```

Name of file: Withdraw

File purpose: Here the user can withdraw maximum 20,000 from his account and validating with some constraints it works accordingly for modulating balance

```
import java.io.*;
public class Withdraw extends Transfer
   Withdraw() throws IOException
   void withdraw_mon() throws IOException
       int x= validate();
       if(x==1)
           System.out.println("\n-> Enter the amount to be Withdrawn: \n");
           amt=sc.nextInt();
           String arr[]=temp1.split(":");
           temp1=arr[1].trim();
           present_amt_acc1=Integer.parseInt(temp1);//converting to int
           if(amt>20000)//it should not exceed
               System.out.println("\n-----
 More than 20,000 Rs. can't be Withdrawn -----\n");
               operation();
           else
               int status=withdraw();
               if(status==1)
                   System.out.println(amt +" Rs. successfully withdrawn\n");//gi
ving the update
                   operation();
```

```
else
                  operation();
  int withdraw() throws IOException
      int flag1=0;
      sc.nextLine();
      File f1 = new File("Record.txt");
      BufferedReader br = new BufferedReader(new FileReader(f1));//110 -
100 as a string read
      String initial = br.readLine();//storing first line of file
      while(initial != null && flag1==0)
          if(("Card Number: "+number).equals(initial))
              flag1=1;
              initial=br.readLine();
              temp2=br.readLine();//storing balance
          else
              initial=br.readLine();
      br.close();//closing file
      if(flag1==0)
          System.out.println("\n-----
No such Card Number exist -----\n");
          return 0;
      else
          String arr[]=temp2.split(":");
```

```
temp2=arr[1].trim();
            int present amt acc1=Integer.parseInt(temp2);//converting to int
            int trans_amt=present_amt_acc1-amt;//modifying balance
            File f2 = new File("Record.txt");
            br = new BufferedReader(new FileReader(f2));//110 -
> 100 as a string read
            String Old_data2="";//initialising with null
            String hack=br.readLine();
           while(hack!=null)
                Old_data2=Old_data2+hack+System.lineSeparator();//storing whole f
ile data into the string
                hack=br.readLine();
            String ex1=name+"'s Balance: "+temp2;
            String ex2=name+"'s Balance: "+trans_amt;//forming strings to be chan
            New_data=Old_data2.replace(ex1,ex2);//replacing line
            PrintWriter pw = new PrintWriter("Record.txt");// 100 -> 100
            pw.print(New_data);
            br.close();
            pw.flush();
            pw.close();
            //closing all files
            return 1;
```

Name of file: Password

File purpose: Using inbuilt functions of Thread and using readPassword() password is taken from the console and simultaneously "*" is printed while the original PIN is stored in file.

Java file code:

```
import java.io.*;
public class Password {
    public static String readPassword (String prompt)
       EraserThread et = new EraserThread(prompt);//using inbuilt class which era
ses the thread
       Thread mask1 = new Thread(et);
       mask1.start();//calls run()
       BufferedReader in = new BufferedReader(new InputStreamReader(System.in));
       String password = "";//initialing password
       try
            password = in.readLine();
       catch (IOException inx)
            System.out.println("Interrupted");
       et.stopMasking();//while it ends
       return password;
```

Name of file: Pin_Hack

File purpose: It is used specifically for handling simultaneous behavior of threads. Where some inbuilt functions are used.

```
class EraserThread implements Runnable//inbuilt classes
  private boolean stop;//to stop while password ends
  public EraserThread(String prompt)
       System.out.print(prompt);
  public void run () //called by start()
      stop = true;//changing status
     while (stop)
         System.out.print("\010*");
        try
            Thread.currentThread();//calling currentThread()
            Thread.sleep(1);//using inbuilt functions here sleeping for 1ms
         catch(InterruptedException ie)
            System.out.println("Interrupted");
  public void stopMasking()
      this.stop = false;//while password ends
class Pin_Hack
   String Pin(String s)
      String password = Password.readPassword(s);
```

```
return password;
}
```

Text Files:

Name of file: Record.txt

File purpose: It maintains the whole ATM record and transactions

followed.

Content:

Card Number: 401283854

Pin: 1234

Kanisha Shah's Balance: 3900

User Name: Kanisha Shah

Bank Name: SBI

Card Number: 560241145

Pin: 4512

Kahan Sheth's Balance: 5000

User Name: Kahan Sheth

Bank Name: SBI

Pin: 12345

Card Number: 31615769

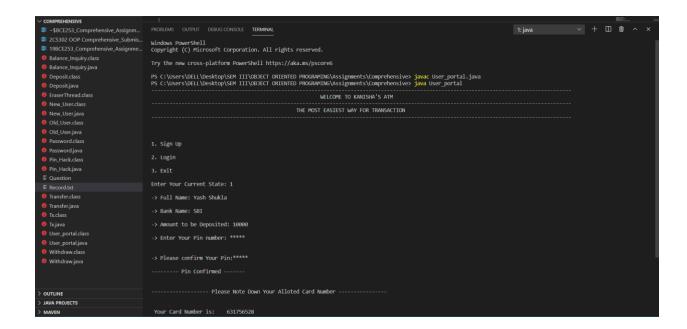
Nivan Sheth's Balance: 6000 User Name: Nivan Sheth Bank Name: SBI *********** Card Number: 250053751 Pin: 1452 Kartik Vaghela's Balance: 15487 User Name: Kartik Vaghela Bank Name: Dena ********** Card Number: 976760542 Pin: 7845 Vivek Shah's Balance: 478512 User Name: Vivek Shah Bank Name: Nutan *********** Card Number: 714296779 Pin: 4875

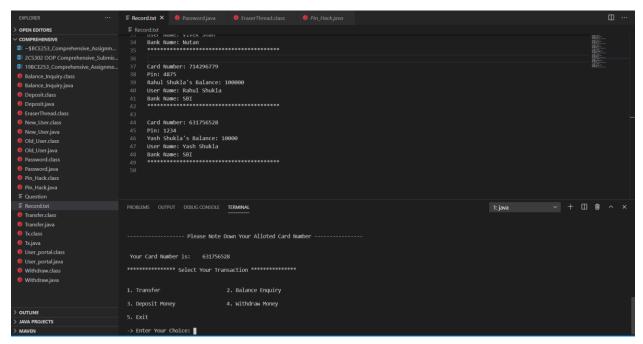
Rahul Shukla's Balance: 100000

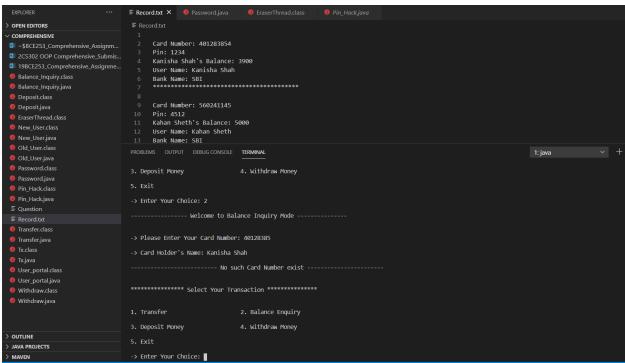
User Name: Rahul Shukla

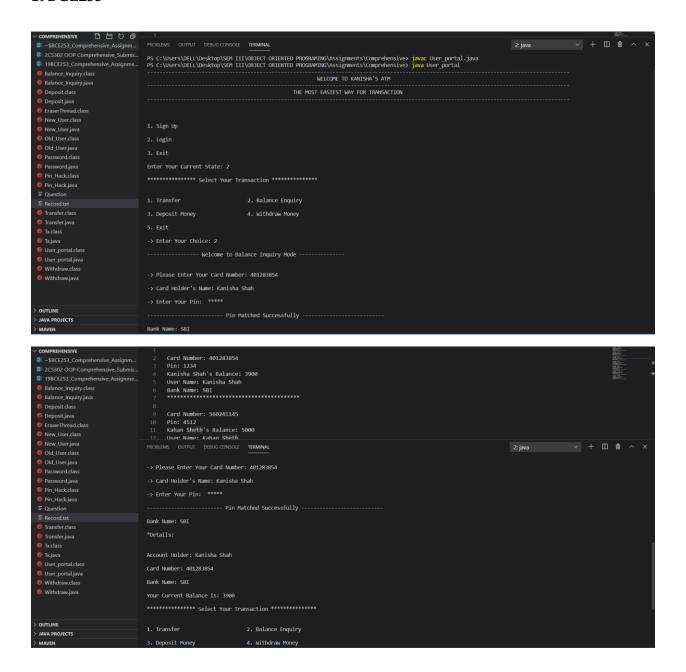
Bank Name: SBI

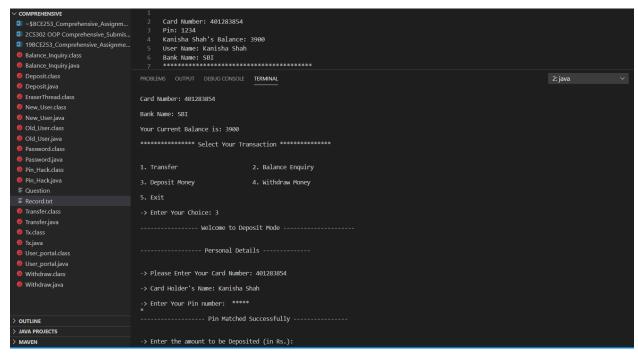
Screen Shots:











Deposit.class Deposit.java Depo
Depositjava
0 EraserThread.class New_User.class -> Enter Your Choice: 3 0 New_User.java
New_Userjava
Old_User.class Old_User.java Derconal Datails
Old_User.class Old_User.java Derconsl Datails
Personal Details
Password.class
• Password.java
• Pin_Hackclass -> Please Enter Your Card Number: 401283854
● Pin_Hackjava -> Card Holder's Name: Kanisha Shah
■ Question -> Enter Your Pin number: *****
F Record.txt -> Enter Your Pin number:
● Transfer.classPin Matched Successfully
● Transfer.java
▼ Tx.class -> Enter the amount to be Deposited (in Rs.):
● Tx.java
User_portal.class 100 100 Rs. Deposited successfully
User_portal.java
• Withdraw.class ***********************************
Withdraw.java
1. Transfer 2. Balance Enquiry
3. Deposit Money 4. Withdraw Money
> OUTLINE
> JAVA PROJECTS 5. Exit
> MAVEN -> Enter Your Choice:

¶ ~\$BCE253_Comprehensive_Assignm 2 Card Number: 401283854 3 Pin: 1234		
3 Din: 123/		
2CS302 OOP Comprehensive_Submis 4 Kanisha Shah's Balance: 4000		
19BCE253_Comprehensive_Assignme 4 Kanisha Shari S Balarice: 40000 5 User Name: Kanisha Shah		
Balance_Inquiry.class		
Balance_Inquiry.java PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL	2: java	
O Deposit.class		
Depositjava 1. Transfer 2. Balance Enquiry		
EraserThread.class		
New_User.class 3. Deposit Money 4. Withdraw Money		
• New_User.java 5. Exit		
Old_User.class		
Old_User.java -> Enter Your Choice: 4		
Password.class		
Password.java		
Pin_Hack.class Personal Details		
Pin_Hack.java		
≅ Record.txt		
10 Transfer.class -> Card Holder's Name: Kanisha Shah		
U Transferjava -> Enter Your Pin number: *****	-> Enter Vour Din number: *****	
U Ix.class *		
Tx.java Pin Matched Successfully		
User_portal.class		
● User_portal.java -> Enter the amount to be Withdrawn:		
Withdraw.class 100000		
0 Withdraw.java		
More than 20,000 Rs. can't be Withdrawn		
> OUTLINE ************************************		
> JAVA PROJECTS		
> MAVEN 1. Transfer 2. Balance Enquiry		

 ✓ COMPREHENSIVE □ ~\$BCE253_Comprehensive_Assignm □ 2CS302 OOP Comprehensive_Submis □ 19BCE253_Comprehensive_Assignme □ Balance_Inquiry.class 	1 2 Card Number: 401283854 3 Pin: 1234 4 Kanisha Shah's Balance: 4000 5 User Name: Kanisha Shah
Balance_Inquiry.java	PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Deposit.class	
Deposit.java	2. Login
EraserThread.class	3. Exit
• New_User.class	
• New_User.java	Enter Your Current State: 2
Old_User.class	******* Select Your Transaction ***********
Old_User.java	
Password.class	1. Transfer 2. Balance Enquiry
Password.java	3. Deposit Money 4. Withdraw Money
Pin_Hack.class	3. Deposit rolley 4. Mittid an Policy
Pin_Hack.java	5. Exit
	-> Enter Your Choice: 4
Record.txt Transfer.class	Welcome to Withdraw Mode
Transfer.java	welcome to withdraw mode
Tx.class	Personal Details
Tx.java User_portal.class User_portal.java	-> Please Enter Your Card Number: 401283854
Withdraw.class	-> Card Holder's Name: Kanisha Shah
Withdraw.java	-> Enter Your Pin number: *****
	Pin Matched Successfully
> OUTLINE	
> JAVA PROJECTS	-> Enter the amount to be Withdrawn:
> MAVEN	1000

∨ COMPREHENSIVE	1	
~\$BCE253_Comprehensive_Assignm	2 Card Number: 401283854	
2CS302 OOP Comprehensive_Submis	3 Pin: 1234 4 Kanisha Shah's Balance: 3000	
19BCE253_Comprehensive_Assignme	5 User Name: Kanisha Shah	
Balance_Inquiry.class		
Balance_Inquiry.java	PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL	2: ja
Deposit.class		
Deposit.java	5. Exit	
EraserThread.class	-> Enter Your Choice: 4	
New_User.class	Welcome to Withdraw Mode	
New_User.java	weicolie to withuraw mode	
Old_User.class		
Old_User.java	Personal Details	
Password.class		
Password.java	-> Please Enter Your Card Number: 401283854	
Pin_Hack.class	-> Card Holder's Name: Kanisha Shah	
Pin_Hack.java		
■ Question	-> Enter Your Pin number: *****	
■ Record.txt	Pin Matched Successfully	
Transfer.class		
Transfer.java	-> Enter the amount to be Withdrawn:	
① Tx.class		
① Tx.java	1000 1000 Rs. successfully withdrawn	
User_portal.class	1000 ns. successivity within ami	
User_portal.java		
Withdraw.class	**************************************	
Withdraw.java		
	1. Transfer 2. Balance Enquiry	
	3. Deposit Money 4. Withdraw Money	
> OUTLINE		
> JAVA PROJECTS	5. Exit	
> MAVEN	-> Enter Your Choice:	
•		_

∨ COMPREHENSIVE	2 Card Number: 401283854	
~\$BCE253_Comprehensive_Assignm	3 Pin: 1234	
2CS302 OOP Comprehensive_Submis	4 Kanisha Shah's Balance: 3000	
19BCE253_Comprehensive_Assignme	5 User Name: Kanisha Shah	
Balance_Inquiry.class	6 Bank Name: SBI	
Balance_Inquiry.java		
Deposit.class	8 9 Card Number: 560241145	
Deposit.java	10 Pin: 4512	
EraserThread.class	11 Kahan Sheth's Balance: 5000	
New_User.class	12 User Name: Kahan Sheth	
New_User.java	13 Bank Name: SBI	
Old_User.class	14 ************************************	
Old_User.java	PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL	1: java
Password.class		
Password.java	5. Exit	
Pin_Hack.class		
Pin_Hack.java	-> Enter Your Choice: 1	
	Welcome to Transfer Mode	
Record.txt		
Transfer.class	Personal Details	
Transfer.java		
Tx.class	-> Please Enter Your Card Number: 401283854	
Tx.java		
User_portal.class	-> Card Holder's Name: Kanisha Shah	
User_portal.java	-> Enter Your Pin number: *****	
Withdraw.class		
Withdraw.java	Pin Matched Successfully	
	-> Enter the amount to be Transfered (in Rs.): 1000	
> OUTLINE	Transaction is possible	
> JAVA PROJECTS		
> MAVEN	-> Enter in which Account you want to transfer Money(in Rs.):	

∨ COMPREHENSIVE	Card Number: 401283854 3 Pin: 1234 4 Kanisha Shah's Balance: 2000 5 User Name: Kanisha Shah 6 Bank Name: SBI 7 *******************************	
Old_User.java	PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL	1: java
Password.class		
Password.java	Pin Matched Successfully	
Pin_Hack.class		
Pin_Hack.java	-> Enter the amount to be Transfered (in Rs.): 1000	
≡ Question	Township is assisted	
Record.txt	Transaction is possible	
Transfer.class		
Transfer.java	-> Enter in which Account you want to transfer Money(in Rs.): 560241145	
Tx.class	-> Card Holder's Name: Kahan Sheth	
● Tx.java	Transaction Successfull	
User_portal.class	ransaction Successiuii	
User_portal.java		
Withdraw.class	**************************************	
Withdraw.java		
	1. Transfer 2. Balance Enquiry	
	3. Deposit Money 4. Withdraw Money	
> OUTLINE		
> JAVA PROJECTS	5. Exit	
> MAVEN	-> Enter Your Choice:	

±		
2 Card Number: 401283854		
3 Pin: 1234		
. 4 Kanisha Shah's Balance:	2000	
5 User Name: Kanisha Shah		
6 Bank Name: SBI		
7 ***************	**********	
8		
9 Card Number: 560241145		
10 Pin: 4512		
11 Kahan Sheth's Balance: 6	6000	
12 User Name: Kahan Sheth		
13 Bank Name: SBI	· • • • • • • • • • • • • • • • • • • •	
14 *************	**************************************	
PROBLEMS OUTPUT DEBUG CONSOLE	TERMINAL	
5. Exit		
3. EXIL		
-> Enter Your Choice: 1		
Welcome to Tran	sfer Mode	
Personal Details		
rel solidi becails		
-> Please Enter Your Card Number: 123451		
-> Card Holder's Name: kanisha		
Tan a Hozaer o Hamer Kanzona		
No such Card Num	ber exist	
**************************************	T:	
Select Your Ira	nsaction ************************************	
1. Transfer	2. Balance Enquiry	
3. Deposit Money	4. Withdraw Money	
5. Exit		
-> Enter Your Choice:		