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/*
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Task 2-ATM interface.
Oasis Infobyte Task 2
*/
package Task1;
import java.util.Scanner;
class BankAccount {
       String name;
       String userName;
       String password;
       String accountNo;
       float balance = Of;
       int transactions = 0;
       String transactionHistory = "";
       // BankAccount(String name, String userName, String password, String accountNo) {
       // this.name = name;
       // this.userName = userName;
       // this.password = password;
       // this.accountNo = accountNo;
       //}
       public void register() {
               Scanner sc = new Scanner(System.in);
               System.out.print("\nEnter Your Name - ");
               this.name = sc.nextLine();
               System.out.print("\nEnter Your Username - ");
               this.userName = sc.nextLine();
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System.out.print("\nEnter Your Password - ");
        this.password = sc.nextLine();
        System.out.print("\nEnter Your Account Number - ");
        this.accountNo = sc.nextLine();
        System.out.println("\nRegistration completed..kindly login");
}
public boolean login() {
        boolean isLogin = false;
        Scanner sc = new Scanner(System.in);
        while (!isLogin) {
                System.out.print("\nEnter Your Username - ");
                String Username = sc.nextLine();
                if ( Username.equals(userName) ) {
                        while (!isLogin) {
                                System.out.print("\nEnter Your Password - ");
                                String Password = sc.nextLine();
                                if ( Password.equals(password) ) {
                                        System.out.print("\nLogin successful!!");
                                        isLogin = true;
                                }
                                else {
                                        System.out.println("\nIncorrect Password");
                                }
                        }
               }
                else {
                        System.out.println("\nUsername not found");
               }
        }
        return isLogin;
```

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}
public void withdraw() {
        System.out.print("\nEnter amount to withdraw - ");
        Scanner sc = new Scanner(System.in);
        float amount = sc.nextFloat();
        try {
                if ( balance >= amount ) {
                        transactions++;
                        balance -= amount;
                        System.out.println("\nWithdraw Successfully");
                        String str = amount + " Rs Withdrawed\n";
                        transactionHistory = transactionHistory.concat(str);
                }
                else {
                        System.out.println("\nInsufficient Balance");
                }
        }
        catch (Exception e) {
        }
}
public void deposit() {
        System.out.print("\nEnter amount to deposit - ");
        Scanner sc = new Scanner(System.in);
        float amount = sc.nextFloat();
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try {
                if ( amount <= 100000f ) {
                        transactions++;
                        balance += amount;
                        System.out.println("\nSuccessfully Deposited");
                        String str = amount + " Rs deposited\n";
                        transactionHistory = transactionHistory.concat(str);
                }
                else {
                        System.out.println("\nSorry...Limit is 100000.00");
                }
        }
        catch ( Exception e) {
        }
}
public void transfer() {
        Scanner sc = new Scanner(System.in);
        System.out.print("\nEnter Receipent's Name - ");
        String receipent = sc.nextLine();
        System.out.print("\nEnter amount to transfer - ");
        float amount = sc.nextFloat();
        try {
                if ( balance >= amount ) {
                        if ( amount <= 50000f ) {
                                transactions++;
                                balance -= amount;
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System.out.println("\nSuccessfully Transfered to " +
receipent);
                                         String str = amount + " Rs transfered to " + receipent + "\n";
                                         transactionHistory = transactionHistory.concat(str);
                                 }
                                 else {
                                         System.out.println("\nSorry...Limit is 50000.00");
                                 }
                        }
                         else {
                                 System.out.println("\nInsufficient Balance");
                        }
                }
                catch (Exception e) {
                }
        }
        public void checkBalance() {
                System.out.println("\n" + balance + " Rs");
        }
        public void transHistory() {
                if ( transactions == 0 ) {
                         System.out.println("\nEmpty");
                }
                else {
                        System.out.println("\n" + transactionHistory);\\
                }
        }
}
```

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public class Task2Oasis {
        public static int takeIntegerInput(int limit) {
                int input = 0;
                boolean flag = false;
                while (!flag) {
                         try {
                                 Scanner sc = new Scanner(System.in);
                                 input = sc.nextInt();
                                 flag = true;
                                 if ( flag && input > limit || input < 1 ) {
                                          System.out.println("Choose the number between 1 to " +
limit);
                                          flag = false;
                                 }
                         }
                         catch ( Exception e ) {
                                 System.out.println("Enter only integer value");
                                 flag = false;
                         }
                };
                return input;
        }
```

public static void main(String[] args) {

```
System.out.println ("\n^{********} WELCOME\ TO\ Baroda\ ATM
SYSTEM********\n");
                System.out.println("1.Register \n2.Exit");
                System.out.print("Enter Your Choice - ");
                int choice = takeIntegerInput(2);
                if ( choice == 1 ) {
                        BankAccount b = new BankAccount();
                        b.register();
                        while(true) {
                                System.out.println("\n1.Login \n2.Exit");
                                System.out.print("Enter Your Choice - ");
                                int ch = takeIntegerInput(2);
                                if (ch == 1) {
                                        if (b.login()) {
                                                System.out.println("\n\n*******WELCOME
BACK " + b.name + " ******* \n");
                                                boolean isFinished = false;
                                                while (!isFinished) {
                                                        System.out.println("\n1.Withdraw
\n2.Deposit \n3.Transfer \n4.Check Balance \n5.Transaction History \n6.Exit");
                                                        System.out.print("\nEnter Your Choice - ");
                                                        int c = takeIntegerInput(6);
                                                        switch(c) {
                                                                case 1:
                                                                b.withdraw();
                                                                break;
                                                                case 2:
                                                                b.deposit();
                                                                break;
                                                                case 3:
                                                                b.transfer();
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break;
                                               case 4:
                                               b.checkBalance();
                                               break;
                                               case 5:
                                               b.transHistory();
                                               break;
                                               case 6:
                                               isFinished = true;
                                               break;
                                       }
                               }
                       }
               }
               else {
                       System.exit(0);
               }
       }
}
else {
        System.exit(0);
}
```

}

}