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package Exp9;

public class Customer

{

private String customerName,address;

private String mobileNo;

public void setCustomerName(String customerName)

{

this.customerName = customerName;

}

public void setAddress(String address)

{

this.address = address;

}

public void setMobileNo(String mobileNo)

{

this.mobileNo = mobileNo;

}

public String getCustomerName()

{

return customerName;

}

public String getAddress()

{

return address;

}

public String getMobileNo()

{

return mobileNo;

}

}

package Exp9;

import java.util.Scanner;

public class Account

{

static int accno=1000;

protected double balance;

protected int accountNo;

Customer cs = new Customer();

public Account()

{

accountNo = accno++;

}

void setBalance(double balance)

{

this.balance = balance;

}

public double getBalance()

{

return balance;

}

public int getAccountNo()

{

return accountNo;

}

public void readAccountInfo()

{

Scanner sc= new Scanner(System.in);

System.out.println("Enter name of customer:");

cs.setCustomerName(sc.next());

System.out.println("Enter address of customer:");

cs.setAddress(sc.next());

System.out.println("Enter mobile of customer:");

cs.setMobileNo(sc.next());

System.out.println("Enter intial balance (>500):");

setBalance(sc.nextDouble());

System.out.println("Your account number is: "+ accountNo);

}

}

package Exp9;

class SavingsAccount extends Account

{

private final double minimumBalance = 500;

public void depositMoney(double amount)

{

this.balance = this.balance + amount;

}

public void withdrawMoney(double amount)

{

if (balance - amount >= minimumBalance )

this.balance = balance - amount;

else

System.out.println("Can not withdraw this much amount");

}

public void displayAccount()

{

System.out.println("Account info");

System.out.println("Account no="+ this.getAccountNo());

System.out.println("Account Name="+ this.cs.getCustomerName());

System.out.println("Account Address="+ this.cs.getAddress());

System.out.println("Account Mobile="+ this.cs.getMobileNo());

System.out.println("Account Balance="+ this.getBalance());

}

}

package Exp9;

import java.util.Scanner;

public class MyBank

{

public static int searchAccount(SavingsAccount sa[],int accNo)

{

int k;

for(k=0; k< sa.length;k++ )

{

if(sa[k].accountNo == accNo)

return k;

k++;

}

return -1;

}

public static void main(String[] args)

{

SavingsAccount sa[] = new SavingsAccount[10];

Scanner sc = new Scanner(System.in);

int accNo=0,k, saCount=0;

int choice;

double amount;

do

{

System.out.println("1: Create Account");

System.out.println("2: Deposit Amount");

System.out.println("3: Withdraw Amount");

System.out.println("4: Display Account");

System.out.println("5: Exit");

System.out.print("Enter your choice: "); //printing on console

choice=sc.nextInt();

switch(choice)

{

case 1:

sa[saCount] = new SavingsAccount();

sa[saCount].readAccountInfo();

saCount++;

break;

case 2:

System.out.println("Enter account number:");

accNo = sc.nextInt();

k= searchAccount(sa, accNo);

if(k!= -1)

{

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

amount = sc.nextDouble();

sa[k].depositMoney(amount);

System.out.println("Amount deposited");

}

else

{

System.out.println("Account does not exists");

}

break;

case 3:

System.out.println("Enter account number:");

accNo = sc.nextInt();

k= searchAccount(sa, accNo);

if(k!= -1)

{

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

amount = sc.nextDouble();

sa[k].withdrawMoney(amount);

System.out.println("Amount withdraw successfull");

}

else

{

System.out.println("Account does not exists");

}

break;

case 4:

System.out.println("Enter account number:");

accNo = sc.nextInt();

k= searchAccount(sa, accNo);

if(k!= -1)

{

sa[k].displayAccount();

}

else

{

System.out.println("Account does not exists");

}

break;

case 5:

System.out.println("Terminating the program");

break;

default:

System.out.println("Wrong choice");

}

}while(choice != 5);

}

}

OUTPUT:

1: Create Account

2: Deposit Amount

3: Withdraw Amount

4: Display Account

5: Exit

Enter your choice: 1

Enter name of customer:

jasmine

Enter address of customer:

solapur

Enter mobile of customer:

1122334455

Enter intial balance (>500):

400

Your account number is: 1000

1: Create Account

2: Deposit Amount

3: Withdraw Amount

4: Display Account

5: Exit

Enter your choice: 2

Enter account number:

1000

Enter amount to deposit:

300

Amount deposited

1: Create Account

2: Deposit Amount

3: Withdraw Amount

4: Display Account

5: Exit

Enter your choice: 3

Enter account number:

1000

Enter amount to withdraw:

200

Amount withdraw successfull

1: Create Account

2: Deposit Amount

3: Withdraw Amount

4: Display Account

5: Exit

Enter your choice: 4

Enter account number:

1000

Account info

Account no=1000

Account Name=jasmine

Account Address=solapur

Account Mobile=1122334455

Account Balance=500.0

1: Create Account

2: Deposit Amount

3: Withdraw Amount

4: Display Account

5: Exit

Enter your choice: 5

Terminating the program