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**//Account Holder**

public abstract class AccountHolder {

private String name;

private String address;

private Long phone;

private double initamount;

double currentB;

AccountHolder(){}

public AccountHolder(String name, String address, Long phone, double initamount) {

this.name = name;

this.address = address;

this.phone = phone;

this.initamount = initamount;

}

public double getInitamount() {

return initamount;

}

public abstract void Deposit(double depo);

public abstract void Withdrawal(double w);

public abstract double Current\_balance();

public abstract void Interestmoney(int year);

public String toString(){

return "AccountHolder: "+ name + ", Address: " + address + ", Phone: " + phone;

}

}

**//Current Account**

public class CurrentAcc extends AccountHolder {

double currentBl = super.getInitamount();

final double interest\_rate = 0.045;

double interestmon=0;

CurrentAcc(String n, String a, long l, double d) {

super(n,a,l,d);

}

public void Deposit(double depo) {

currentBl +=depo;

System.out.println(" Current Balance: " + currentBl);

}

public void Withdrawal(double w) {

currentBl -=w;

System.out.println(" Current Balance: " + currentBl); }

public double Current\_balance() {

return currentBl;

}

public void Interestmoney(int year){

interestmon = currentBl\*year\*interest\_rate;

System.out.println("Interest for "+ year + " for current Balance: "

+ currentBl + " is " + interestmon + " tk " );

}

public String toString(){

return super.toString() + " Current Balance: " + currentBl;

}

}

**//Saving Account**

public class SavingsAcc extends AccountHolder {

double interest\_rate = 0.0275;

final double withdraw\_limit = 120000;

double interestmon=0;

double withV =0;

double currentBn = super.getInitamount();

SavingsAcc(String n, String a, long l, double d) {

super(n,a,l,d);

}

public void Deposit(double depo) {

currentBn +=depo;

System.out.println(" Savings Balance: " + currentBn);

}

public void Withdrawal(double w) {

if(currentBn >500 || (currentBn-w)>0){

if(withV>=withdraw\_limit){

System.out.println("Cannot Withdraw anymore than 120000 per day");

}else{

currentBn -=w;

withV +=w;

System.out.println(" Savings Balance: " + currentBn);

}

}else{

System.out.println("Minimum AccountHolder Balance is 500");}

}

public double Current\_balance() {

return currentBn;

}

public void Interestmoney(int year){

interestmon = currentBn\*year\*interest\_rate;

System.out.println("Interest for "+ year + " for Savings Balance: " + currentBn + " is " + interestmon + " tk " );

}

public String toString(){

return super.toString() + " Saving Balance: " + currentBn;

}

}

**//Main Class**

import java.util.Scanner;

public class MainClass {

public static void main(String[] args) {

int trans = 1;

Scanner in = new Scanner(System.in);

int v = 0, vS = 0;

System.out.println("~~~~~~Welcome~~~~~");

System.out.println("Create Bank Account");

System.out.println("Enter type: 1.Current Account\t2.Saving Account 3. Exit");

int n = in .nextInt();

while (n != 3) {

switch (n) {

case 1:

while (v != 6) {

System.out.print("Enter name: ");

String nm = in .next(); in .nextLine();

System.out.print("Enter Address: ");

String address = in .nextLine();

System.out.print("Enter Phone: ");

Long phn = in .nextLong();

System.out.print("Enter Initial Amount minimum Tk. 40000: ");

double inita = in .nextDouble();

if (inita < 40000) {

System.out.println("Enter Again: ");

inita = in .nextDouble();

}

AccountHolder c = new CurrentAcc(nm, address, phn, inita);

while (v != 6) {

System.out.println("Select option: \t1.Deposit,\t\t2.Withdraw\n\t\t3.Current Balance,\t4.Interest\n\t\t5. Account Info,\t6. Exit ");

v = in .nextInt();

switch (v) {

case 1:

if (trans <= 6) {

trans++;

System.out.print("Deposit amount: ");

double dep = in .nextDouble();

c.Deposit(dep);

} else {

System.out.println("Limit Exceeds");

break;

}

break;

case 2:

if (trans <= 6) {

trans++;

System.out.print("Withdraw amount: ");

double with = in .nextDouble();

c.Withdrawal(with);

} else {

System.out.println("Limit Exceeds");

}

break;

case 3:

System.out.println("Current Balance: " + c.Current\_balance());

break;

case 4:

System.out.print("Enter Years for Interest: ");

int year = in .nextInt();

c.Interestmoney(year);

break;

case 5:

System.out.println(c);

break;

case 6:

return;

default:

break;

}

}

}

case 2:

while (vS != 6) {

System.out.print("Enter name: ");

String nmS = in .next(); in .nextLine();

System.out.print("Enter Address: ");

String addressS = in .nextLine();

System.out.print("Enter Phone: ");

Long phnS = in .nextLong();

System.out.print("Enter Initial Amount minimum Tk. 1000: ");

double initaS = in .nextDouble();

if (initaS < 1000) {

System.out.println("Enter Again: ");

initaS = in .nextDouble();

}

AccountHolder cS = new SavingsAcc(nmS, addressS, phnS, initaS);

while (vS != 6) {

System.out.println("Select option: \t1.Deposit,\t\t2.Withdraw\n\t\t3.Current Balance,\t4.Interest\n\t\t5. Account Info,\t6. Exit ");

vS = in .nextInt();

switch (vS) {

case 1:

if (trans <= 3) {

trans++;

System.out.print("Deposit amount: ");

double dep = in .nextDouble();

cS.Deposit(dep);

} else {

System.out.println("Limit Exceeds");

break;

}

break;

case 2:

if (trans <= 3) {

trans++;

System.out.print("Withdraw amount: ");

double withS = in .nextDouble();

if (withS > 50000) {

System.out.println("Maximum withdrawal amount 50000 per transaction");

withS = in .nextDouble();

}

cS.Withdrawal(withS);

} else {

System.out.println("Limit Exceeds");

}

break;

case 3:

System.out.println("Saving Balance: " + cS.Current\_balance());

break;

case 4:

System.out.print("Enter Years for Interest: ");

int year = in .nextInt();

cS.Interestmoney(year);

break;

case 5:

System.out.println(cS);

break;

case 6:

return;

default:

break;

}

}

}

case 3:

default:

break;

}

}

}

}

**OUTPUT:**



