Week 8 - bank 10. java

```
import java.util;
import java.lang.;
class Account
{
   String name = " ";
   string acc_no= " ";
   string type = " ";
}
class Curr Act extends Account {
   double balance = 0;
   Scanner vs = new scanner (System.in);
  void getdata ()
{
  System.out.println ("Name: \n");
  name = vs.nextline ();
  System.out.println ("Account Number : \n");
  acc_no = vs.nextline ();
}
  void deposit () {
  System.out.println ("Deposit = ");
  double dep = vs.nextdouble();
  balance t = dep;
  System.out.println ("New Balance ="+balance );
```

```
}
  void display () {
  System.out.println ("Your current balance is "+balance);
}
  voiddisplay () {
  System.out.println ("No Intrests Available for current deposit"
}
 void withdraw () {
  if(balance > 500)
{
  System.out.println ("withdraw amount : \n");
  double withd =vs.next double ();
  if (balance -withd < 0) {
  System.out.println ("Insufficient Balance \n");
}
 else
{
 balance - =withd ;
 if (balance < 2000).
{
 System.out.println ("Service charge of 5%. Balance
                      is applied \n Service change ="+(0.05*
                                                  balance));
 balance - =(0.5 * balance);
}
```

classmate

```
System.out.println("Your Balance after withdrawl of "+withd+"=
                                        balance);
}
}
else {
System.out.println("Insufficient Balance : minbalance is
 500 ");
}
}
}
class saving act extends Account {
int flag = 0;
double balance =0 ;
Scanner vs = new Scanner (System.in);
 void get data ( ) {
System.out.println ("Name : \n ");
name = vs.nextline ();
System.out.println ("Account Number : \n ");
acc_no = vs.next line ();
}
 void deposits () {
System .out.println ("Deposit Amount : \n ");
double dep =vs.nextDouble();
balance += dep ;
System.out.println ("New balance = "+balance);
```

```
}
void display () {
System.out.println ("Current Balance is "+balance");
}
void intrest () {
if (flag == 0) {
System.out.println ("Enter rate and number of months");
double r = vs.nextdouble ();
int months = vs.nextInt ();
double i = 0;
i = balance * Math.pow ((r/100), months);
balance += i;
System.out.println ("Your intrests is = "+ (double) Math.round
                                                    (i));
flag = 1;
}
Void withdraw ()
{
if (balance > 0) {
System.out.println ("Enter amount to withdraw");
double withd = vs.nextdouble ();
if (balance - withd < 0) {
System.out.println ("You dont have enough balance")
}
else {
```

```
balance -= withd;
}
System.out.println("Your balance after withdrawal of "+withd+"
                                    ="+balance);
}
else {
system.out.println("Insufficient Balance : min balace is 0");
}
}}
class bank {
public static void main(String args[]) {
Scanner vs = new Scanner(System.in);
int choice =0;
do {
 system.out.println("1. Current Account \n 2. Saving Account
                                    \n3. Exit");
 choice = vs.nextInt();
 swith(choice) {
  case 1:
 currAct objc = new CurrAct();
 int choice 2=0;
 objc.getdata();
do {
System.out.println("\nDepost \n2. Display \n3 Intrest \n4.
                    withdraw \n 5. Exit );
```

```
choic 2 = vs.next Int();
switch (choic 2) {
case 1 :objc.deposit();
break;
case 2. objc.display();
break;
case3: objc.intrest();
break;
case4: objc.withdraw();
break;
}
} while (choice 2! = 5);
  break;
  case2;
  Saving Act objs = new Saving Act();
  objs.get data();
do {
System.out.println ("1. Deposit \n2. Display \n3. Intrested \n4.
                     Withdraw \n5. Exit ");
choice 2= vs.next Int();
switch (choice 2) {
 case 1: objs deposit();
 break;
 case 2 : objs.display();
 break;
```

```
case 3: obj3.intrests();
break;
case4: obj3.withdraw();
break;
}
}

while(choice 2!=5);
break;
}
while (choice!=3);
}
}
```

shape 9.java

```
import java.util;
abstract class shape {
    int a,b;
abstract void printArea();
}
class Rectangle extends shape {
  public void printArea()
{
   Scanner sc = new scanner (System.in);
   System.out.println ("Enter length and breadth.");
   a=sc.nextInt();
   b=sc.nextInt();
   System.out.println ("Area = " + (a*b));
}
}
class triangle extends shape {
   public void printArea()
{
   Scanner sc = new Scanner (System.in);
   System.out.println ("Enter length and breadth ");
   a= sc.nextInt();
   b =sc.nextInt();
   System.out.println ("Area = " + (0.5*a*b));
```

```
}
}
class circle extends shape {
 public void printArea()
   {
     Scanner sc = new Scanner(System.in);
     System.out.println("Enter Radius");
     a = sc.nextInt();
     System.out.println("Area = "+(3.14*a*a));
   }
}
class Main9{
   public static void main (string args[]) {
    int ch;
   Scanner sc = new Scanner (System.in);
   System.out.println("Press 1: Rectangle \n Press 2: Triangle \n
                       Press 3 : Circle \n"),
   ch = sc.nextInt();
    Shape ref = null;
    switch (ch) {
      case1 : ref = new Rectangle ();
       break;
     case2: ref = new Triangle ();
      break;
     Case 3; ref = new circle ();
      break;
```

```
    }
    ref.printArea();
}
}
```