Week 8

Shape.java

```
import java.util.Scanner;
abstract class shape {
  int int1, int 2;
abstract double printArea();
}
class Rectangle extends shape {
Rectangle (int a, int b) {
  int1 = a;
  int 2 = b;
}
double print Area() {
System.out.println("For Rectangle ");
return int1, int 2;
}
}
class Triangle extends shape {
 Triangle (int a, int b) {
    int1 = a;
   int 2 = b;
 }
  double print Area () {
```

```
System.out.println("For Triangle ");
return (int1 * int2)/2;
}
}
class circle extends shape {
circle(int a) {
int1=a;
}
double printArea() {
System.out.println("For circle ");
return 3.14 * int1 * int1;
}
}
class shapeMain {
public static void Main(String arge[]) {
Rectangle r = new Rectangle(10,20);
Triangle T = new Triangle(20,30);
Circle c = new Circle(35);

System.out.println(Area of Rectangle is: "+r.PrintArea());
System.out.println("Area of triangle is: "+t.printArea());
System.out.println("Area of circle is: " c.printArea());
}
}
```

Account.java

```
import java.util.Scanner;
class acount
{
 private string name;
 private double account_no;
 private char account_type;
 private double balance;
 void getdata (char ch)
{
 Scanner xx = new Scanner(System.in);
 System.out.println("Enter the name of customer : ");
 name = xx.next();
 xx.nextLine();
 System.out.println("Enter the account number of customers :");
account_no = xx.nextDouble();
System.out.print("Enter the balance of the customer: ");
balance = xx.nextDouble();
accounttype = ch;
}
Void updatebalance (double n)
{
    balance = balance + n;
}
```

```
  void updatebalance (double x)
{
   balance = balance - x;
}
  double get balance ()
{
  return balance;
}
 void displaybalance ()
{
  System.out.println ("The balance is: " + balance );
}
}
class Saving_Account extends Accounts {
 private double interset_rate;
 Saving_Account()
{
 Scanner xx = new Scanner (System.in);
 get data ('s');
 System.out.println ("Enter the Intrest rate:");
 intrest_rate = xx.nextDouble();
}
 void get Deposit ()
{
 Scanner xx = new Scanner (System.in);
```

```
System.out.println("Enter amount to be deposited: ");
double x=xx.nextdouble();
updatebalance(x);
}
Void computeinterst();
{
double x=(getbalance()*intrestrate)/100;
updatebalance();
System.out.println("The computed intrest is :"+x);
displaybalance();
}
Void withdrawl()
{
System.out.println("Enter the ammount to be withdrawn:"
Scanner xx=new scanner(System.in);
double x=xx.nextDouble();
while(x>getbalance())
{
System.out.println("The amount withdraw is more than the
                    balance enter again:");
}
updatebalance1(x);
displaybalance();
}
}
```

```
class Current_Account extends Account {
private double min_balance;
private int checq_book;
Current_account()
{
Scanner xx = new Scanner(System.in);
getdata('c');
System.out.println("Enter the minimum blance:");
min_balance = x.x nextdouble();
}
void get deposit()
{
Scanner xx = new Scanner (System.in);
System.out.println("Enter amount of the check:");
double x = xx.nextdouble();
if (x>(get balance() min_balance))
{
System.out.println("You have issued a checar of more than the
      minimum balance and you have been charged a
      penalyt:");
updatebalance(100);
}
else
{
 updatebalance(x);
}
```

classmate

```
displaybalance();
}
Void withdrawl()
{
System.out.println("Enter the amount to be withdrawn:");
Scanner xx = new Scanner(System.in);
double x = xx.nextDouble();
while(x>(getbalance()-min_balance))
{
System.out.println("The account withdrawn is more than the
                    balance enter again:");
x = xx.next Double();
}
updatebalance(x);
displaybalance();
}
}
class AccountMain {
public static Void main(string args[])
{
Scanner input = new Scanner(System.in);
char ch;
System.out.println("Enter the type of account you want (C/S):");
ch = input.next().charAt(0);
if(ch=='S'||ch=='s')
{
```

classmate

```
Saving_Account S=new Saving_Account();
int n=1;
while (n!=0)
{
System.out.println("Enter 0 for exit:");
System.out.println("Enter 1 for deposit:");
System.out.println("Enter 2 for balance enquiry:");
System.out.println("Enter 3 for calculate intrest:");
System.out.println("Enter 4 for withdrawl:");
n=input.nextInt();
if (n==0)
break;
else if (n==1)
{
  S.getdeposit();
}
else if (n==2)
{
  S.displaybalance();
}
else if (n==2)
{
  S.displaybalance();
}
else if (n==3)
```

```
{
 S.computeintrest();
}
else if(x==4)
{
 S.withdral();
}
}
}
else
{
Current_Account S=new Current_Account();
int x=1;
while(x!=0)
{
System.out.println("Enter 0 for exit:");
System.out.println("Enter 1 for deposit:");
System.out.println("Enter 2 for balance enquiry:");
System.out.println("Enter 3 to apply for cheque:");
System.out.println("Enter 4 for withdrawl:");
x=input.nextInt();
if(x==0)
        break;
else if(x==1)
{
```

```
    s.getdeposit ();
  }
  else if (x==2)
  {
    s.displaybalance ();
  }
  else if (x==3)
{
  s.issue check ();
  }
  else if (x==4)
{
  Si withdrawl ();
}
  }
  }
  }
  }
```