LAB:- 5

Ajith M S
1BM19CS010

```
import java.util.Scanner;
class Account
{
String name, accnum, acctype;
double balance;
Account(){}

void input()
{
 Scanner sc=new Scanner(System.in);
 System.out.println("enter name, ac number");
   name= sc.next();
   accnum=sc.next();
 System.out.println("Enter balance");
   balance= sc.nextInt();
 }

void displaydetails()
 {
System.out.println("name = "+name+" \n number= "+accnum);
 balance="+balance+"\n account type:"+acctype);
 }

void displaybalance()
 {
 System.out.println("balance="+balance);
   }
```

```
class curracct extends Account
 {
   curracct()
  {
   acctype = "curret";
  }
   double minbal = 5000;
  void check()
   {
    double penalty = 100;
    if (balance < minbal)
    {
     balance = balance - penalty;
   System.out.println("penalty is imposed");
  System.out.println("balance=" + balance);
     }
    else
     {
      System.out.println("penalty not imposed");
 } }

void deposit()
  { Scanner sc = new Scanner(System.in);
  System.out.println("enter amt to deposit");
  double amt = sc.nextDouble();
    balance = balance + amt;
  }
}
class savacc extends Account
   {
  savacc()
   { acctype = "savings"; }
```

```
double ci;
void calcompound(int n, int t)
 {
  ci = balance* (Math.pow((1+(0.2/4));
   balance = balance+ci;
   System.out.println("Compound interest: %.2f", ci);
   System.out.printf("\n balance: %.2f, balance);
 }

void withdrawal(double amt)
 {
 double min bal= 5000;
 if(balance < 5000)
  System.out.println("amount cant be withdrawn as
  min balance (5000)
  (or) amount will be violated");
    else
   balance = balance-amt;
 }

Class account main
{
  public static void main(String[].args)
  {
   Scanner sc=new Scanner(System.in);
System.out.println("enter 1 for savings 2 for current acct");
  int acctype = sc.nextint();
  Savacc s=new Savacc();
  Curacct c=new Curacct()
  if (acctype==1)
```

```
{
System.out.println("Enter your details:");
s.input();
  s.display details();
System.out.println("number of time interest to be
   compounded per unit t(n), time in years");

int n=sc.nextInt();
 int t=sc.nextInt();
  s.calcompound(n,t)
   int n1=1
   while(n1==1)
 {
 System.out.println("enter 1.deposit 2.withdrawal.3.exit");
  int w =sc.nextInt();
    if (w==1)
    {
      s.deposit();
    }
     else if (w==2)
    {
     System.out.println("enter the amount:");
       double amt= sc.nextdouble();
    s.withdrawal (amt);
     s.display();
    }
   else{  system exit(0); }
  }
```

LAB 5 :-

```
abstract class shape{
   int x, y;
   abstract void printArea();
}
class rectagle extends shape
  {
    rectagle (int a, int b)
     {
        x=a;
        y=b;
     }
  void printArea(){
    System.out.println("Area of rectagle" -(x*y));
  }
}

class traigle extends shape
 {
   traigle (int a, int b){
        x=a;
        y=b;
     }

  void printArea(){
     System.out.println("Area of traigle" -(x*y));
  }
}
```

class Circle extends Shape
{
  public Circle(int x)
  {
    this.x = x;
  }
  public void printArea()
  {
    System.out.println("The area of the circle is " + (3.14 * x * x));
  }
}

public class Main
{
  public static void main(String[] args)
  {
    Triangle tri = new Triangle(5, 5);
    Rectangle rect = new Rectangle(5, 5);
    Circle cir = new Circle(5);
    tri.printArea();
    rect.printArea();
    cir.printArea();
  }
}