```
abstract class shape{
    int x,y;
   abstract void printArea();
class rectangle extends shape
    rectangle(int a,int b){
            x=a;
            y=b;
        }
   void printArea(){
        System.out.println("Area of rectangle is "+(x*y));
class triangle extends shape
     triangle(int a,int b){
            x=a;
            y=b;
  void printArea(){
   System.out.println("Area of triangle is "+(0.5*x*y));
class circle extends shape
     circle(int a){
            x=a;
   void printArea(){
        System.out.println("Area of circle is "+(3.142*x*x));
public class area
    public static void main(String[] args) {
     rectangle rect = new rectangle(5,6);
     triangle tri = new triangle(4,3);
     circle cir = new circle(8);
     rect.printArea();
     tri.printArea();
      cir.printArea();
```

```
import java.util.Scanner;
class Account
```

```
String name,accnum,acctype;
    double balance;
    Account(){}
            acctype="savings";
            acctype="current";
    void input()
        Scanner sc=new Scanner(System.in);
    System.out.println("enter name ,acc number");
    name=sc.next();
    accnum=sc.next();
    System.out.println("enter balance");
    balance=sc.nextInt();
void displaydetails()
        System.out.println("\nname="+name+"\naccnumber="+accnum+"\nbalance="+b
alance+"\naccount type="+acctype);
void display()
        System.out.println("balance="+balance);
class curracct extends Account
    curracct()
            acctype="current";
    }
         double minbal=5000;
    void check()
```

```
double penalty=100;
     if(balance<minbal)</pre>
         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/n)),(n*t)));
      balance=balance+ci;
        System.out.printf("compound interest:%.2f",ci);
        System.out.printf("\nbalance:%.2f",balance);
   void withdrawal(double amt)
        double minbal=5000;
        if(balance<5000)
         System.out.println("amount cant be withdrawn as min balance(5000) con
straint will be violated");
       else
           balance=balance-amt;
```

```
void deposit()
       System.out.println("enter amount to deposit: ");
        Scanner sc=new Scanner(System.in);
       double depamt;
       depamt=sc.nextDouble();
       balance=balance+depamt;
       System.out.println("balance="+balance);
  }
class AccountMain
    public static void main(String[] args)
        Scanner sc=new Scanner(System.in);
       //Account A=new Account();
        System.out.println("enter 1 for savings account 2 for current account
");
         int acctype=sc.nextInt();
        savacc s=new savacc();
       curracct c=new curracct();
        if(acctype==1)
       System.out.println("enter your details: ");
        s.input();
        s.displaydetails();
       System.out.println("number of times 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.withdrawl 3.exit");
        int w=sc.nextInt();
        if(w==1)
             s.deposit();
```

```
C:\Windows\System32\cmd.exe - java AccountMain

Microsoft Windows [Version 10.0.18363.1139]
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C:\Users\Ajith\Desktop\java program>java AccountsMain

Error: Could not find or load main class AccountMain

C:\Users\Ajith\Desktop\java program>java AccountMain

ON enter 1 for savings account 2 for current account

1 enter your details:
    enter name ,acc number

XYZ
123455
    enter balance
63000

name==xyz
accnumber=123455
balance=63000.0
account type-savings
number of times interest to be compounded per unit t(n),time in years

9 3
compound interest:114041.82
balance:177041.82enter 1.deposit 2.withdrawl 3.exit
```

