```
import java.util.Scanner;
abstract class Shape
 {
   int n1, n2;
   Scanner sc = new Scanner (System.in);
   abstract void printArea ()
 }
class Rectangle extends Shape
 {
   void printArea ()
     {
       System.out.println ("Enter length and breadth
       of Rectangle : ");
       a1 = sc.nextInt ();
       a2 = sc.nextInt ();
       System.out.println ("The area of rectangle is "
          +a1*a2);
     }
 }
class Triangle extends Shape
  {
    void printArea ()
     {
       System.out.println ("Enter base and height of
       Triangle");
       a1 = sc.nextInt ();
       a2 = sc.nextInt ();
     }
  }
class Circle extends Shape
  {
    void printArea ()
```

```
    {
        System.out.println("Enter the radius of
            circle:");
        a1 = sc.nextInt();
        System.out.println("Area of circle is:"+a1*a1*
            3.14);
    }
}
class MainShape
{
    public static void main(String args[])
    {
        Rectangle r = new Rectangle();
        r.printArea();
        Triangle t = new Triangle();
        t.printArea();
        Circle c = new Circle();
        c.printArea();
    }
}
```

```
import java.util.Scanner;
class Account
 {
   String name,type;
   long acno;
   double bal;
   double minbal =1000.0; w=0;
   Account (String name, String type, long acno,
   double bal)
     {
       this.name = name;
       this.type = type;
       this.acno = acno;
       this.bal = bal;
     }
     Scanner isc = new Scanner (System.in);
 }
class Current extends Account
{
  Current (String name, long acno, double bal)
    {
      super (name, "current", acno, bal);
    }
  void Withdraw ()
    {
      System.out.println ("Enter the amount");
      w = isc.nextDouble ();
      bal = bal - w;
      Balance ();
    }
  void Deposit ()
    {
```

```
        System.out.println("Enter the amount");
        w = sc.nextDouble();
        bal = bal + w;
    }
    void Balance()
    {
        if(bal < minbal)
        {
            System.out.println("Insufficient balance,
            penalty will be imposed");
            bal = bal * 0.3;
        }
    }
    void Display()
    {
        System.out.println("Name" + name + "\n
        Account number" + acno + "\n Type of
        account" + type + "\n Balance" + bal);
    }
}
class Savings extends Account
{
    Savings(String name, long acno, double bal)
    {
        super(name, "Savings", acno, bal);
    }
    void Withdraw()
    {
        System.out.println("Enter the amount");
        w = sc.nextDouble();
        bal = bal - w;
    }
```

```
void ~~Display~~ Deposit()
 {
  System.out.println("Enter the amount");
  w = sc.nextDouble();
  bal = bal + w;
  calculate();
 }
void calculate()
 {
  int t = 2, r = 5;
  bal = bal + bal * (Math.pow((1+(r/100)),t
 }
 void Display()
  {
   System.out.println("Name."+name+"\nAccount
   number."+acno+"\nType of account"+type
   "\nBalance"+bal);
  }
 }
class MainAccount
 {
  public static void main(String args[])
   {
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter your name");
    String name = sc.nextLine();
    System.out.println("Enter your account
    number");
    long acno = sc.nextLong();
    System.out.println("Enter your balance");
    float bal = sc.nextFloat();
    System.out.println("Type of account : \n1.
```

```
Current account\n 2. Savings Account\n3. Exit-");
    int o = sc.nextInt();
    if (o == 1)
    {
        Current c = new Current (name, acno, bal);
        System.out.println("1.Deposit 2. Withdraw 3. Display
        int ch = sc.nextInt();                    4.Exit");
        switch (ch)
        {
            case 1:
            c.Deposit();
            break;
            case 2:
            c.Withdraw();
            break;
            case 3:
            c.Display();
            break;
            case 4:
            System.exit(0);
            default:
            System.out.println("Invalid choice");
        }
    }
}
else if(o == 2)
{
    Savings s = new Savings (name, acno, bal);
    int ch =
    System.out.println("1.Deposit 2. Withdraw 3.
        Display 4. Exit");
    ich = sc.nextInt();
    switch(ch)
```

```
            case 1: s.Deposit();
            break;
            case 2: s.Withdraw();
            break;
            case 3: s.Display();
            break;
            case 4: System.exit(0);
            default: System.out.println("Invalid choice");
        }
    }
}
else if(o==3)
    System.exit(0);
else
    System.out.println("Invalid choice");
    }
}
}
```