4) Develop a Java program to create an abstract class named Shapethat contains two integers and an empty method named printArea(). Providethree classes named Rectangle, Triangle and Circle such that each one of theclasses extends the class Shape. Each one of the classes contain only themethod printArea() that prints the area of the given shape.

1) Develop a Java program to coreate an abstract does named Shape that contains two integers and an empty method named point Assect ). Porovide three classes named Reltangle, Towardle and Good. Such that each one of the classes extends the class Shape. Each one of the classes contain only the method point Anea() that points the area of the gruen shape impost java util Scanner; abstract class Shape abstoract void Porintarea ()) class Rectangle extends Shape double width, length, breadth; Rectangle (double l. double b) Lalength = 1; breadth = 6; void Bountareal < 3 ystem.out-pointIn(" the area of the rectangle is: " + (length & boreadth)); class Torrangle extends Shape L davoic base, height; Torrangle (double b, double h) heaght = h;

```
word Porinteneal
      < . System.out.porint In (" the area of too angle
                              is;" + (ors a bouse a height ));
 class Crande extende Shape
    L' double madius
       Cronde (double on)
         ( madies = );
      void Porintanca ()
   ( System out, point do (" the area of Goode:"
                               + 3.14 4 5 9 5) )
 class Myshape
    of public Static wid main (Storing [Targs)
     ( Scanner SC=new Scanner (System 10);
         Rectangle reet = new Rectangle (20,10)
         Totangle to: new Totangle (10,8)
          Croxle con: new Croxde (20)
            Dect. Porintarea ()!
            tour Pointanea (1)
             Cion. Porntarea ();
output
     the area of the meetangle is : 200,0
    the anear of toriungle is; 40.0
     the agrea of croide is: 7850.0
```

## Output

```
1 File(s)
                                    784 bytes
              17 Dir(s) 323,797,487,616 bytes free
C:\Users\Chinmay Hegde\Documents>cd java practise
C:\Users\Chinmay Hegde\Documents\java practise>javac shape.java
C:\Users\Chinmay Hegde\Documents\java practise>java Myshape
the area of the rectangle is:200.0
the area of the triangle is:40.0
the area of the circle is:7850.0
C:\Users\Chinmay Hegde\Documents\java practise>
```