```
4) Develop a Java program to create an abstract
class named shape
                       that contains two integers
and an empty method name printArea (7. Provide
 three classes normed Rectangle, Triangle and
 circle such that each one of the class extends
 the class Shape fach one of the classes contain
  only the method print Area () that prints the
        of the given shape.
 area
                 mess) our Tr bone
 impost java util-scannes;
  abstract class Shape
    int 1, b; double a;
   Scanner 55 = new 8 canner (system.in)
   & system.out printin ("enter 1:").
     1 = SS. nextInt():
system out println ("Enter 6:").
      b=85. nextint();
     void printArea()
           Rectangle enterds Shape
    class
       void print Area ()
         Bystemout println ("ARCa:
    class Triangle
          Phint Alea()
     void
           system.out. printin (" Alea:"+ this.a);
```

```
class circle extends Shape
   void printareal)
       systemout-println(
  public static void main (string[] augs)
       Rectangle 1 = new Rectangle ().
       Triangle t = new fliangle ()
                 c = new circle();
        Circle
        82 A. print-trea ();
           to print Area();
            C. print Area ();
    3
          Enter 1: 3
Output:
           Enter b: 4
           Enter l: 6
           Enter b: 8
           Enter l: 2
           Enter 6: 8
            ALLa is : 12.0
            aua is: 24.0
             alea is: 12.56
                              108 1341-
```

```
import java.util.Scanner;
abstract class Shape
{
  int l,b;
  double a;
  Scanner ss=new Scanner(System.in);
  Shape()
  System.out.println("enter I:");
  l=ss.nextInt();
  System.out.println("enter b:");
  b=ss.nextInt();
  }
  void printArea()
  }
class Rectangle extends Shape
  void printArea()
    a=l*b;
    System.out.println("area is :"+this.a);
}
  }
class Triangle extends Shape
  void printArea()
    a=0.5*l*b;
    System.out.println("area is :"+this.a);
  }
}
class Circle extends Shape
  void printArea()
    a=3.14*l*l;
    System.out.println("area is :"+this.a);
  }
}
```

```
public class main
{
   public static void main(String[] args)
   {
      //Shape s1=new Shape();
      Rectangle s2=new Rectangle();
      Triangle s3=new Triangle();
      Circle s4=new Circle();
      //s1.printArea();
      s2.printArea();
      s3.printArea();
      s4.printArea();
   }
}
```

```
C:\lBM303>java Shapeint
enter length:
3
enter breadth:
4

Class Area of rectangle is 12.0
enter radius:
3
Area of circle is 28.2599999999998
enter length:
5
enter breadth:
6
Area of triangle is 15.0

C:\lBM303>

public void getArea()
```