[5C]

**Aim:** To write a JAVA program for abstract class to find areas of different shapes.

**Program:**

abstract class Shape

{

abstract doubleArea();

}

class rectangle extends shape

{

double l=12.5,b=2.5;

double area()

{

return l\*b;

}

}

class triangle extends shape

{

double b=4.2,h=6.5;

double area() {

return 0.5\*b\*h;

}

}

class square extends shape

{

double s=6.5;

double area()

{

return 4\*s;

}

}

class ShapeDemo

{

public static void main(String[] args)

{

rectangle r1=new rectangle();

triangle t1=new triangle();

square s1=new square();

System.out.println("The area of rectangle is: "+r1.area());

System.out.println("The area of triangle is: "+t1.area());

System.out.println("The area of square is: "+s1.area());

}

}

**Output:**

The area of rectangle is: 31.25

The area of triangle is: 13.65

The area of square is: 26.0