

WEEK 4 – JAVA LAB

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abstract class a

```
{  
    double a, b;  
    a(double i, double j)  
    {  
        a = i;  
        b = j;  
    }  
    abstract double area();  
}
```

class rectangle extends a

```
{  
    rectangle(double i, double j)  
    {  
        super(i, j);  
    }  
    double area()  
    {  
        return (a * b);  
    }  
}
```

class triangle extends a

```
{
    triangle(double i, double j)
    {
        super(i, j);
    }
    double area()
    {
        return (0.5 * a * b);
    }
}

class circle extends a
{
    circle(double i)
    {
        super(i, i);
    }
    double area()
    {
        return (3.14 * a * b);
    }
}

class area
{
    public static void main(String args[])
```

```
{  
    rectangle r = new rectangle(10,5);  
    triangle t = new triangle(5,4);  
    circle c = new circle(10);  
    System.out.println("The area of the rectangle is: "+(r.area()));  
    System.out.println("The area of the triangle is: "+(t.area()));  
    System.out.println("The area of the circle is: "+(c.area()));  
  
}  
}
```

OUTPUT

```
C:\Users\Admin\Desktop\1BM21CS232\for java>javac area.java  
  
C:\Users\Admin\Desktop\1BM21CS232\for java>java area  
The area of the rectangle is: 50.0  
The area of the triangle is: 10.0  
The area of the circle is: 314.0
```