

```
import java.util.*;

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 areas
{
    public static void main(String[] args)
    {
        rectangle r = new rectangle(8, 6);
        triangle t = new triangle(5, 4);
        circle c = new circle(7);
        System.out.println("Area of the rectangle is "+r.area());
        System.out.println("Area of the triangle is "+t.area());
        System.out.println("Area of the circle is "+c.area());
    }
}

```

}

```
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C:\Users\Admin>cd C:\Users\Admin\Desktop\1BM21CS238

C:\Users\Admin\Desktop\1BM21CS238>set path = C:\Program Files\Java\jdk-19\bin

C:\Users\Admin\Desktop\1BM21CS238>javac areas.java

C:\Users\Admin\Desktop\1BM21CS238>java areas
48.0
10.0
153.86

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48.0
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C:\Users\Admin\Desktop\1BM21CS238>javac areas.java

C:\Users\Admin\Desktop\1BM21CS238>java areas
Area of the rectangle is 48.0
Area of the triangle is 10.0
Area of the circle is 153.86

C:\Users\Admin\Desktop\1BM21CS238>D|
```