

WEEK 8

```
abstract class Shape
{
    int side1, side2;
    double area;
    abstract void printArea();
}
```

```
class Rectangle extends Shape
{
    Rectangle(int l, int b)
    {
        side1=l;
        side2=b;
    }
    void printArea()
    {
        area=side1*side2;
        System.out.println("The area of the Rectagle is: "+area);
    }
}
```

```
class Triangle extends Shape
{
```

```
Triangle(int h, int b)
{
    side1=h;
    side2=b;
}
void printArea()
{
    area=0.5*side1*side2;
    System.out.println("The Area of the triangle is: "+area);
}
}
```

```
class Circle extends Shape
{
    Circle(int r)
    {
        side1=r;
    }
    void printArea()
    {
        area=3.14*side1*side1;
        System.out.println("The Area of the Circle is: "+area);
    }
}
```

```
}
```

```
}
```

```
class ShapeMain
```

```
{
```

```
public static void main(String args[])
```

```
{
```

```
Rectangle rect=new Rectangle(5,6);
```

```
rect.printArea();
```

```
Triangle tri=new Triangle(5, 8);
```

```
tri.printArea();
```

```
Circle cir=new Circle(10);
```

```
cir.printArea();
```

```
}
```

```
}
```