

WEEK 4.

LAB 4.

Date \_\_\_\_\_  
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abstract class Shape

```
{  
    int sides, side2;  
    double area;  
    abstract void printArea();  
}
```

class Rectangle extends Shape

```
{  
    Rectangle (int l, int b)  
    {  
        input side1 = l;  
        side2 = b;  
    }  
  
    void printArea()  
    {  
        area = side1 * side2;  
        System.out.println("Area of rectangle is: " + area);  
    }  
}
```

class Circle extends Shape

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

```
class ShapeMain
```

```
{
```

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

```
    {
```

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

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

```
        Triangle tri = new Triangle(10, 20);
```

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

```
        Circle cir = new Circle(20);
```

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

```
    }
```

```
}
```



ShapeMain - Notepad

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```
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);
    }
}
```

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```
ShapeMain - Notepad
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{
    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();
    }
}
```

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```
Microsoft Windows [Version 10.0.18362.959]
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G:\bin\Programs>javac Shapemain.java
'javac' is not recognized as an internal or external command,
operable program or batch file.

G:\bin\Programs>set path="g:/bin"

G:\bin\Programs>javac Shapemain.java

G:\bin\Programs>java Shapemain
Error: Could not find or load main class Shapemain

G:\bin\Programs> java ShapeMain
The area of the Rectangle is: 30.0
The Area of the triangle is: 20.0
The Area of the Circle is: 314.0
```