Lecture/Workshop (Week 6)

```
public class Circle
   private double radius;
   public Circle(double theRadius)
      radius = theRadius;
   }
   public void displayRadius()
      System.out.println("Radius: " + radius);
   }
   public void displayDiameter()
      double diameter = 2 * radius;
      System.out.println("Diameter: " + diameter);
   }
   public void displayPerimeter()
      double perimeter = 2 * Math.PI * radius;
      System.out.println("Perimeter: " + perimeter);
   public void displayArea()
      double area = Math.PI * radius * radius;
      System.out.println("Area: " + area);
   }
   public void displayAll()
      displayRadius();
      displayDiameter();
      displayPerimeter();
      displayArea();
   }
}
// This would be in a different file, you can't have 2 public classes . java file.
public class CircleTester
{
   public static void main(String[] args)
      Circle myCircle = new Circle(12.0);
      myCircle.displayRadius();
      myCircle.displayDiameter();
      myCircle.displayPerimeter();
      myCircle.displayArea();
      System.out.println();
      myCircle.displayAll();
   }
}
```

// Output

Radius: 12.0 Diameter: 24.0

Perimeter: 75.39822368615503

Area: 452.3893421169302

Radius: 12.0 Diameter: 24.0

Perimeter: 75.39822368615503

Area: 452.3893421169302