

Tutorial Week 2

Our readings (lecture notes and video lecture) this week discuss about **Review of Object Oriented Programming**. Write the answers for all questions in the table according to your understanding. **PLEASE USE YOUR OWN WORDS. DO NOT COPY FROM THE WEB.**

Question	Answer
<p>1. Describe the relationship between an object and its defining class. How do you declare a class? How do you declare an object? How do you declare and create an object in one statement?</p>	
<p>2. Explain the difference between constructors and methods.</p>	
<p>3. What is wrong with the following program?</p> <pre> public class Test { public static void main (String args[]){ Test a = new Test(); a.print(); } class A { String s; A(String s) { this.s=s; } public void print(){ System.out.println(s); } } }</pre>	

4. What is the printout of the following code?

```
public class HelloJavaEE {

    private boolean x;

    public static void main (String args[]){
        HelloJavaEE hello = new HelloJavaEE ();
        System.out.println(hello.x);
    }

}
```

5. In the following code, radius is private in the Circle class, and myCircle is an object of the Circle class. Does the following code cause any problems? Explain why.

```
public class Circle {

    public double radius = 1.0;

    double getArea() {
        return radius * radius * Math.PI;
    }

    public static void main(String args[]) {
        Circle myCircle = new Circle();
        System.out.println("Radius is" + myCircle.radius);
    }

}
```

6. How many objects of a given class may be constructed in a project?

7. Examine the following section of code.

```
String xyz= new String("white");
xyz = new String ("blue");
xyz = new String ("green");
xyz = new String ("pink");
xyz = new String ("purple");
```

How many objects are created? How many objects are accessible?

8. Examine the following section of code.

```
String xyz = New String ("white");
String xyy= new String ("blue");
String xyx= new String ("green");
String xzz= new String ("pink");
String xxz= new String ("purple");
```

How many objects are created? How many objects are accessible?