

**COMP 110/L**  
**Fall 2022**

**Lecture 6 Handout**

1.) Write the output of the following code, starting execution at `main`:

```
public static void foo(int x) {
    x = x + 1;
    System.out.println("In foo: " + x);
}

public static int main(String[] args) {
    int x = 7;
    foo(x);
    System.out.println("In main: " + x);
}
```

2.) Write the output of the following code, starting execution at `main`:

```
public static int bar(int myVar) {
    System.out.println(myVar);
    return myVar + 1;
}

public static int main(String[] args) {
    int myVar = 5;
    System.out.println(myVar);
    int temp = bar(myVar + 1);
    System.out.println(myVar);
    System.out.println(temp);
}
```

3.) Consider the following method:

```
public static int divide(int first, int second) {  
    return first / second;  
}
```

Using JUnit, write a test that will call `divide` with the actual parameters 8 and 2. This test should then use `assertEquals` to ensure that the result is 4. You only need to write the test; don't worry about the imports.

4.) Consider the following method:

```
public static int add(int first, int second) {  
    return first + second;  
}
```

Using JUnit, write a test that will call `add` with the actual parameters 7 and 4. This test should then use `assertEquals` to ensure that the result is 11. You only need to write the test; don't worry about the imports.