Memory Models

Support Video

By the end of this video you will be able to…

- Write **testing code** to verify output of Java code
- Use **Eclipse** to test simple Java code

```
int var1 = 17;
int var2 = var1 + 1;
var1 = var2 + 1;
System.out.println("var1: " + var1 + " var2: " + var2);
```

```
int var1 = 17;
int var2 = var1 + 1;
var1 = var2 + 1;
System.out.println("var1: " + var1 + ", var2: " + var2);
```

Memory models

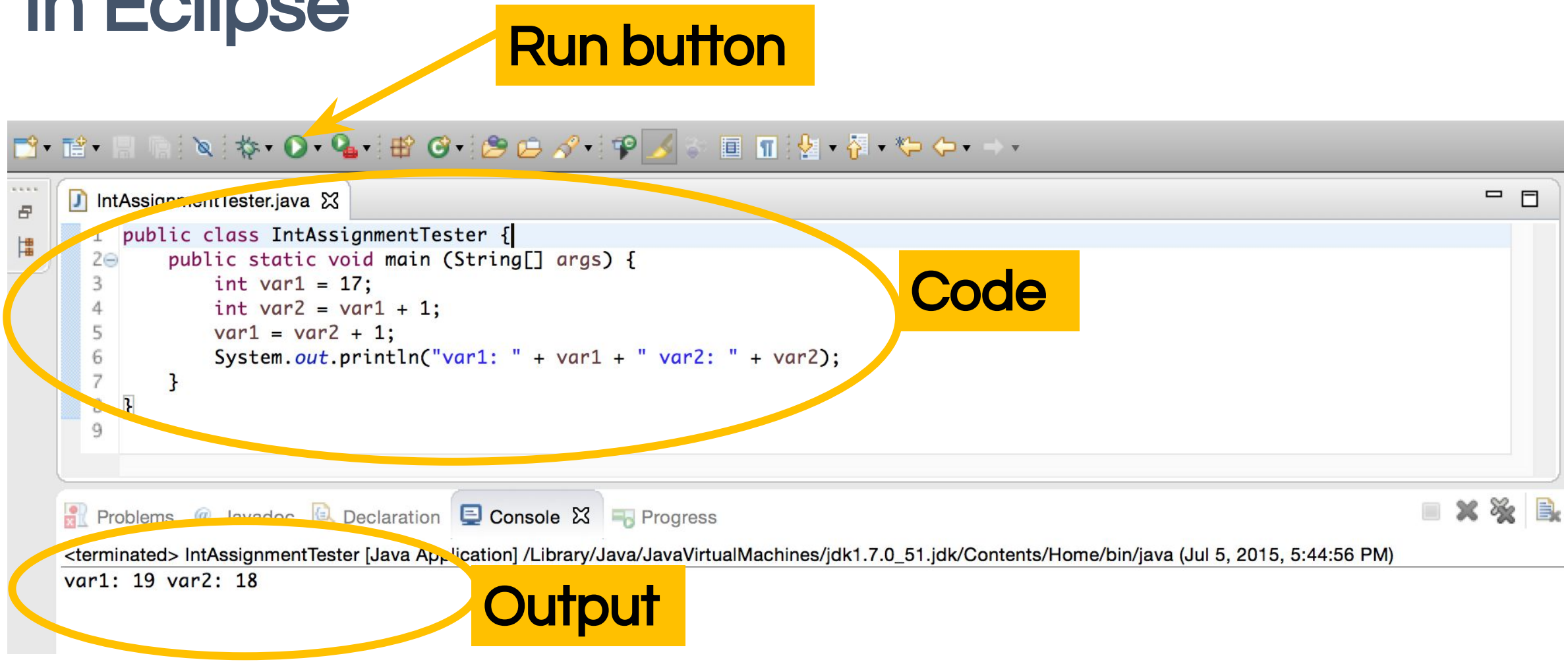
Expect: `var1: 19, var2: 18`

How do we test?

```
public class IntAssignmentTester
{
  public static void main(String[] args)
  {
    int var1 = 17;
    int var2 = var1 + 1;
    var1 = var2 + 1;
    System.out.println("var1: " + var1 + " var2: " + var2);
  }
}
```

In file **IntAssignmentTester.java**

In Eclipse


Run button
IntAssignmentTester.java
public class IntAssignmentTester {
public static void main (String[] args) {
int var1 = 17;
int var2 = var1 + 1;
var1 = var2 + 1;
System.out.println("var1: " + var1 + " var2: " + var2);
}
}
Code
Problems
Declaration
Console
Progress
<terminated> IntAssignmentTester [Java Application] /Library/Java/JavaVirtualMachines/jdk1.7.0_51.jdk/Contents/Home/bin/java (Jul 5, 2015, 5:44:56 PM)
var1: 19 var2: 18
Output