

Testing Day 1

Monday, June 1, 2020 8:50 AM

TESTING DAY 1

- Open up VS Code, press ctrl shift p, settings.json. download link and move to same place as java folder... add snippet to Json File.
- <https://repo1.maven.org/maven2/org/junit/platform/junit-platform-console-standalone/1.6.2/junit-platform-console-standalone-1.6.2.jar>

```
"java.project.referencedLibraries": [  
  "lib/**/*.jar",  
  "C:\\Program Files\\Java\\junit-platform-console-standalone-1.6.2.jar"  
]
```

The jar file that was just downloaded is a java library - we're essentially loading in our own library so that we can run imports etc.

What is TDD?

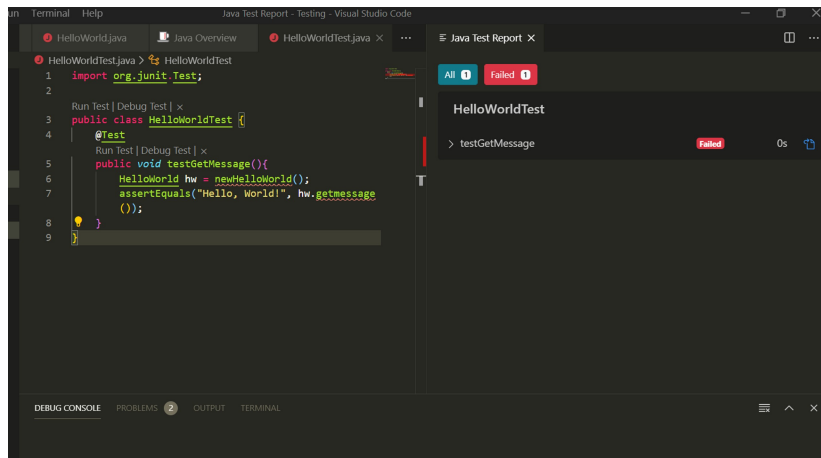
- writing texts for ourself before you actually write any code
- approach of programming which gives instructions to developers to write new code only when a test has failed

Why TDD?

- avoid duplication of code
- makes our code clearer, simpler,

Trying it out - make a folder for today, and inside of that a HelloWorld.java, and a HelloWorldTest.java - In HelloWorld Test we are going to add @Test - which should automatically import org.junit.test; import org.junit.Test;

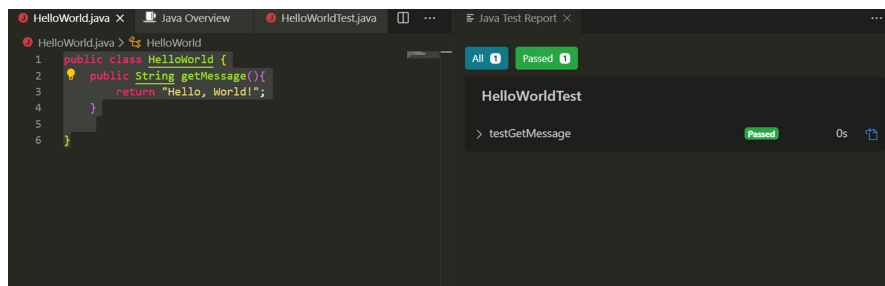
```
public class HelloWorldTest {  
  @Test  
  public void testGetMessage(){  
    HelloWorld hw = new HelloWorld();  
    //assertion - making sure our expected behavior matches the actual behavior  
    // First param - expected behavior, Second param - actual behavior  
    assertEquals("Hello, World!", hw.getMessage());  
  }  
}
```



The test will fail when run.

Once we go back and create the methods in HelloWorld.js

```
public class HelloWorld {  
  public String getMessage(){  
    return "Hello, World!";  
  }  
}
```



HelloWorld.java
Java Overview
HelloWorldTest.java
Java Test Report

```

5 public class HelloWorldTest {
6     @Test
7     public void testGetMessage(){
8         HelloWorld hw = new HelloWorld();
9         //assertion - making sure our expected
10        // behavior matches the actual behavior
11        // First param - expected behavior, Second
12        // param - actual behavior
13        assertEquals("Hello, World!", hw.getMessage());
14    }
15
16    @Test
17    public void testGetMessageWithName(){
18        HelloWorld hw = new HelloWorld();
19        assertEquals("Hello, Rafeena!", hw.getMessage("Rafeena"));
20    }
21 }

```

All 1
Failed 1

HelloWorldTest

testGetMessageWithName
Failed
0.01s

