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Course Code and Name: 2CSDE80 Software Testing & Quality Assurance

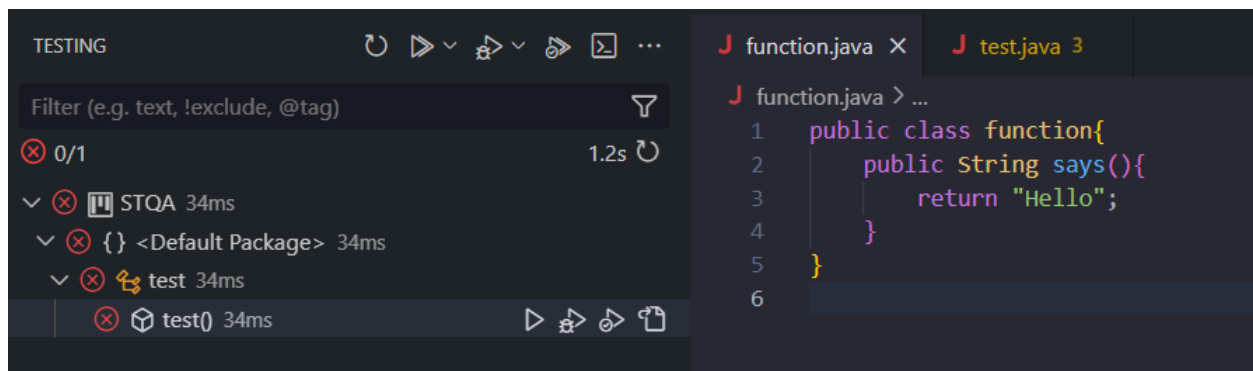
Practical No: 4

AIM : To study and perform sample tests using JUnit Testing tool for writing and executing automated unit tests.

function.java: This file defines a class called function which contains a simple method says() that returns the string "Hello".

Code of function.java:

```
public class function{  
    public String says(){  
        return "Hello";  
    }  
}
```



test.java: The class test imports JUnit testing libraries and contains a test case for the says() method. Inside the test() method, comparison of the actual return value of the says() method with the expected string "Helo" is done. The expected value is "Helo" (with a typo), while the actual return value from says() is "Hello". This is done to verify the correctness of the say() method

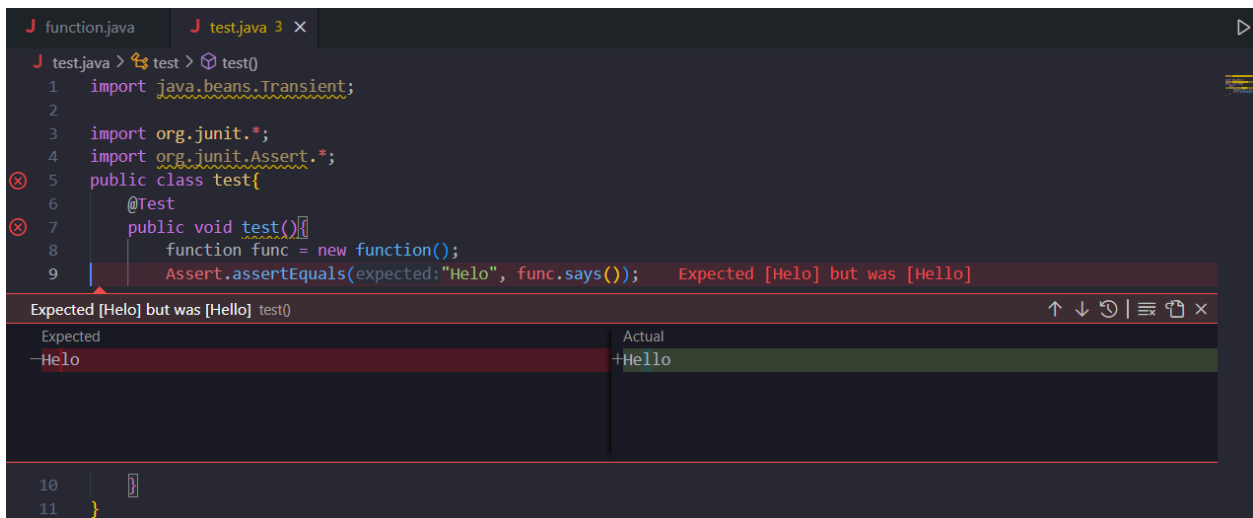
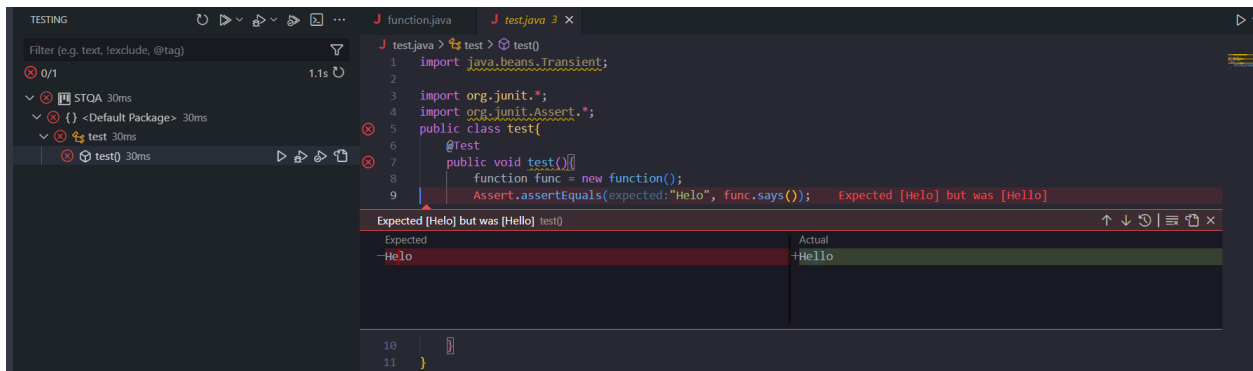
Code of test.java:

```
import java.beans.Transient;  
import org.junit.*;  
import org.junit.Assert.*;  
public class test{
```

```

@Test
public void test(){
    function func = new function();
    Assert.assertEquals("Helo", func.says());
}
}

```



When running the JUnit test, it should fail because the expected string "Helo" does not match the actual return value "Hello". The unsuccessful test demonstrates how JUnit detects differences between predicted and observed results.