Junit — Mockito — Logging Assignment

1. Junit

Junit Code Snippet:

MainApp.java | checkPrime.java | *PrimeTest.java

```
1  package primeExceptions;
2
3  import static org.junit.jupiter.api.Assertions.*;
4  import org.junit.jupiter.api.Test;
5
6  class PrimeTest {
7      @Test
8      void test() {
9          checkPrime test=new checkPrime();
10         boolean output=test.check(15);
11         assertEquals(true, output);
12     }
13
14 }
15
```

Figure 1 Showing Junit Test Case

Test Results

1. Pass Results (Passing 5 to be checked as Prime)

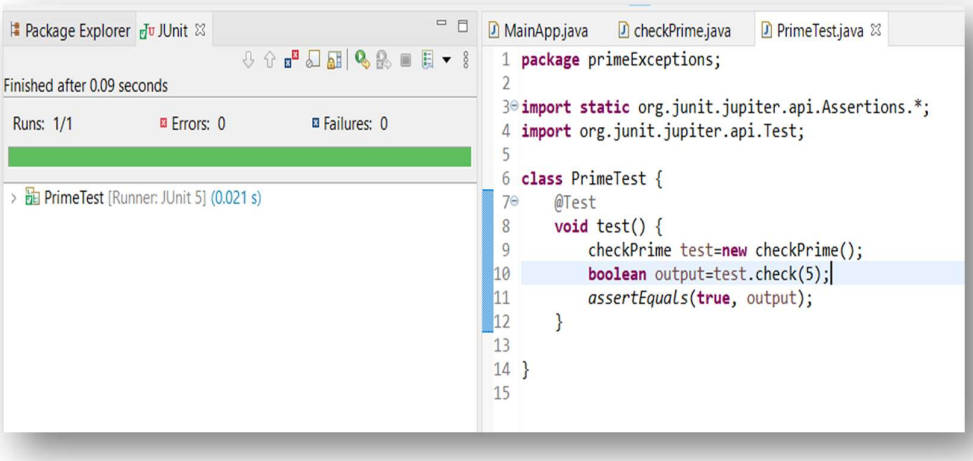

Figure 2 Showing Test Cases Passed

2. Fail Results (Passing 15 to be checked as Prime)

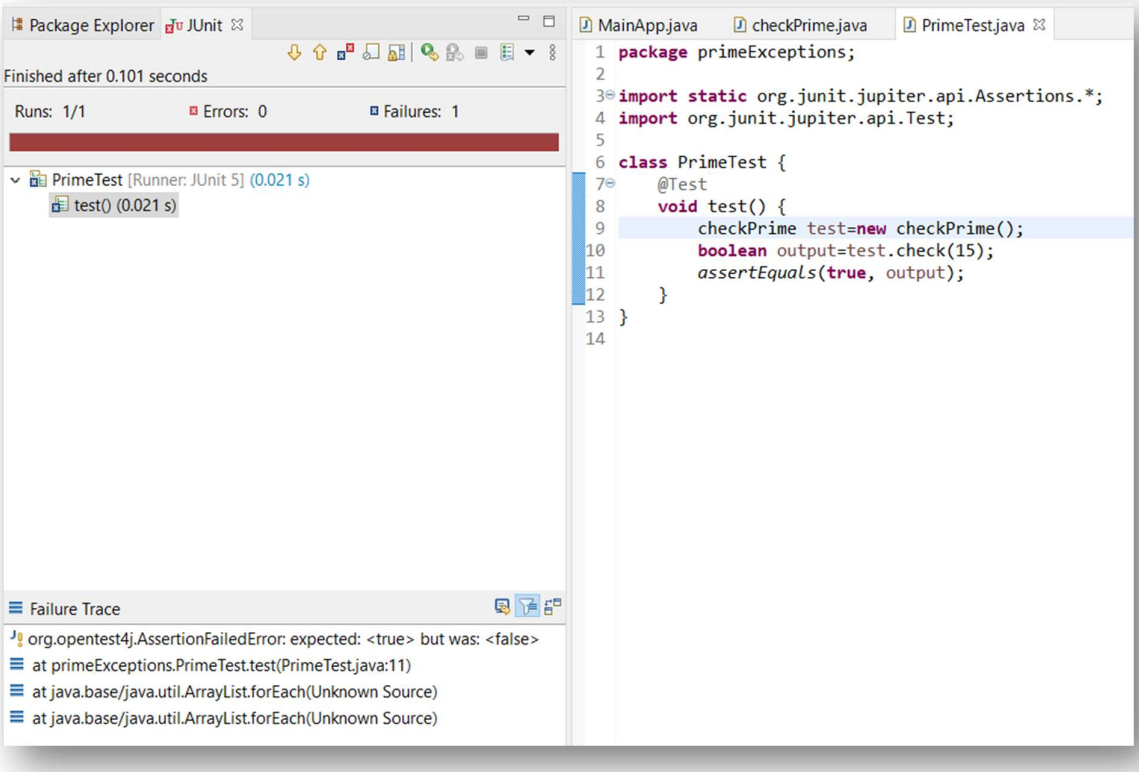

Figure 3 Showing failed test case when 15 is being checked as prime

2. Mockito

Mockito Code Snippet:

MockitoPrime/pom.xml | IsPrime.java | CheckService.java | CheckServiceTest.java

```
1  package AccoliteUniversity.MockitoPrime;
2
3  import static org.mockito.Mockito.mock;
4  import static org.mockito.Mockito.when;
5
6  import org.junit.Before;
7  import org.junit.Test;
8  import org.mockito.Mockito.*;
9
10 import junit.framework.Assert;
11
12 public class CheckServiceTest {
13
14     CheckService chkObj;
15
16     @Before
17     public void setup() {
18         IsPrime iObj= mock(IsPrime.class);
19         when(iObj.check(5)).thenReturn(true);
20         chkObj=new CheckService();
21         chkObj.setObj(iObj);
22
23     }
24     @Test
25     public void testCheckPrime() {
26         Assert.assertEquals(true, chkObj.checkPrime(5));
27     }
28
29 }
30
```

Figure 4 Showing Mockito Test Code

Pass Test Case:

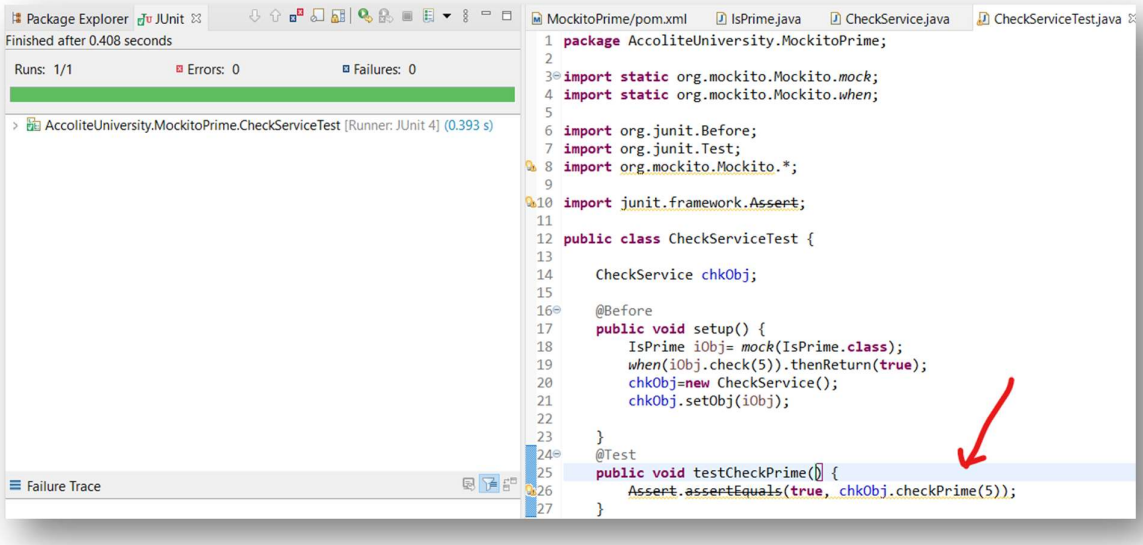

Figure 5 Showing passed test case for checking 5 as prime

Failed Test Case:

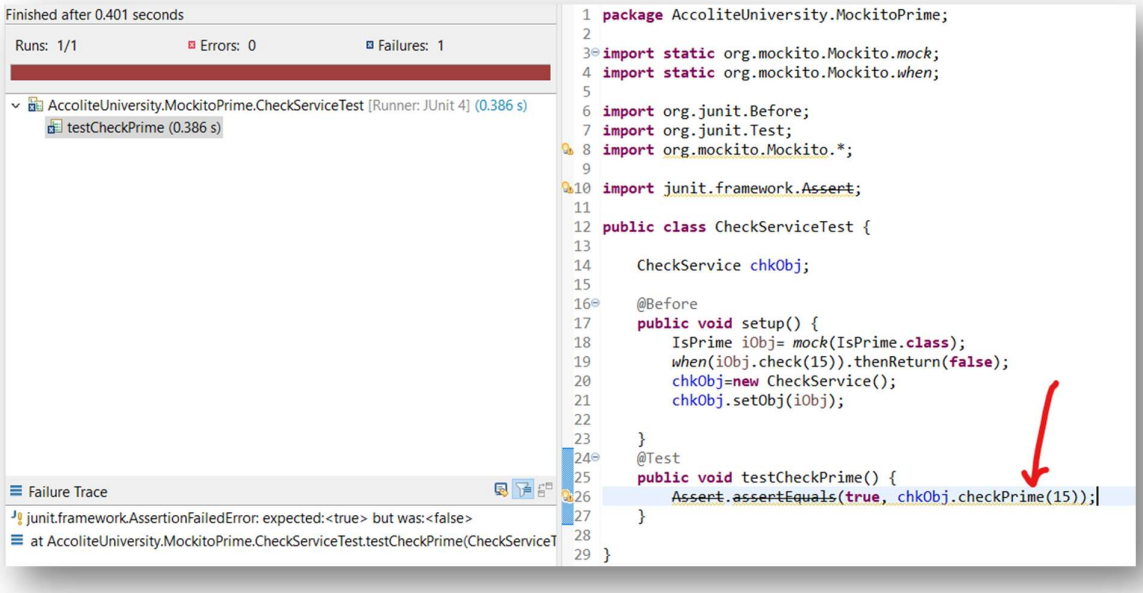

Figure 6 Showing failed test case which classifies 15 as Prime