

Accolite University Feb Batch 1

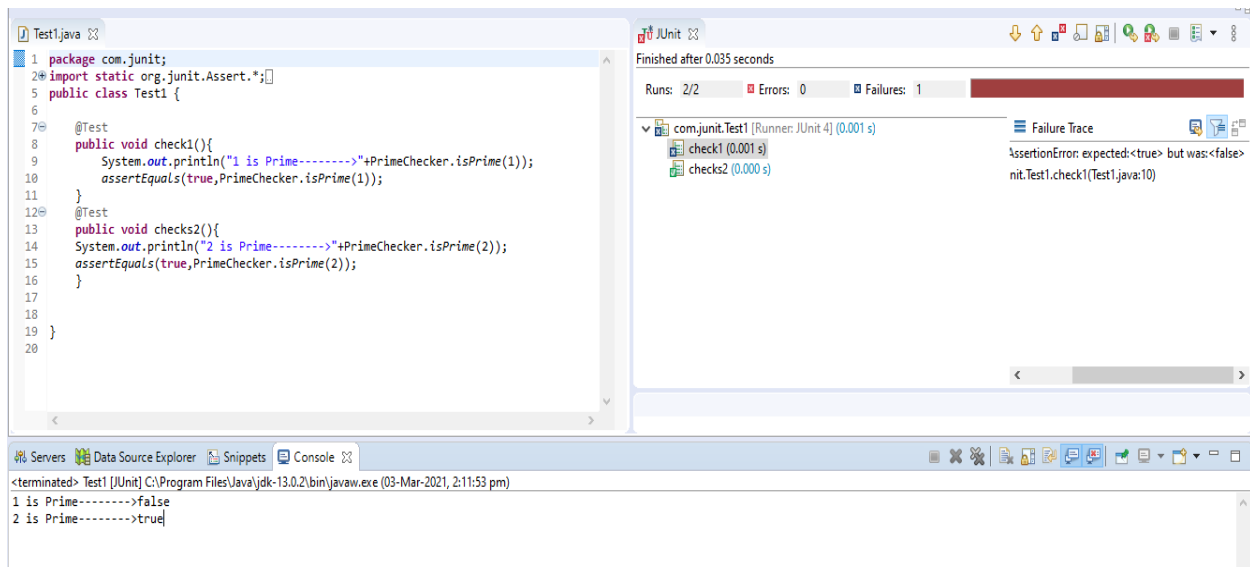
JUnit, Mockito, Logging Assignment

- Meet Shah
(INT626)

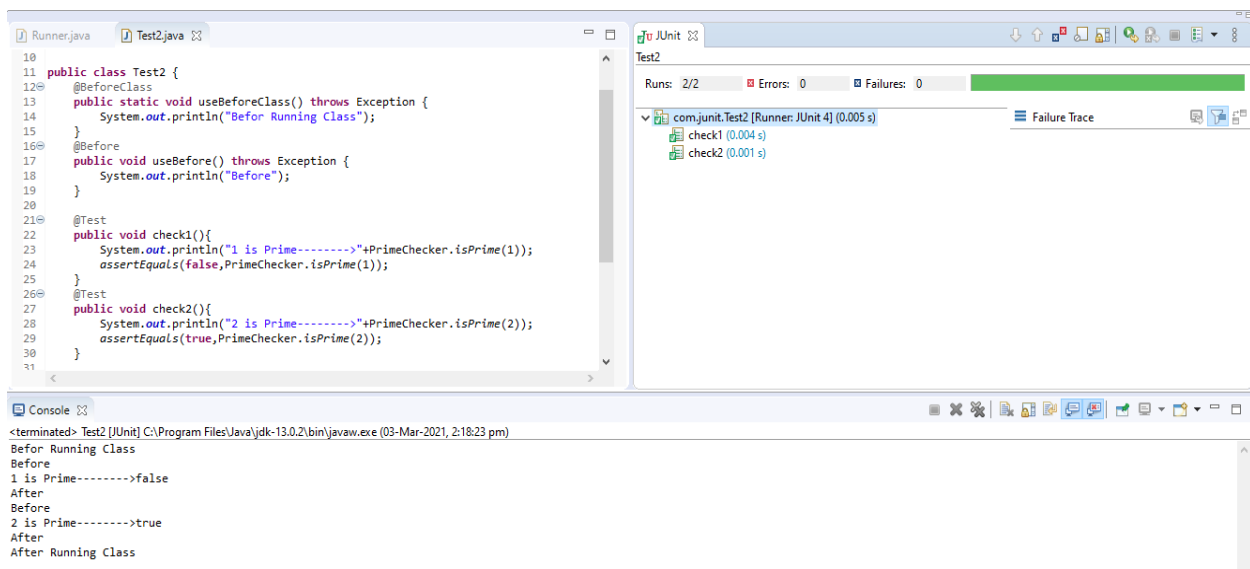
SCREENSHOTS

1. JUnit on Prime Number Code

➔ Running Test1 where there 1 failed assertion in check1() TestCase.



➔ Running Test2 with Before, After, BeforeClass, AfterClass Annotations where there are no failures.



➔ Implementing Test1 using Runner Class

```
Runner.java
1 package com.junit;
2
3 import org.junit.runner.JUnitCore;
4
5
6
7 public class Runner {
8     public static void main(String[] args) {
9         Result result = JUnitCore.runClasses(Test1.class);
10
11         for (Failure failure : result.getFailures()) {
12             System.out.println(failure.toString());
13         }
14
15         System.out.println(result.wasSuccessful());
16     }
17 }
18
```

```
Console
<terminated> Runner [Java Application] C:\Program Files\Java\jdk-13.0.2\bin\javaw.exe (03-Mar-2021, 2:25:20 pm)
1 is Prime----->false
2 is Prime----->true
check1(com.junit.Test1): expected:<true> but was:<false>
false
```

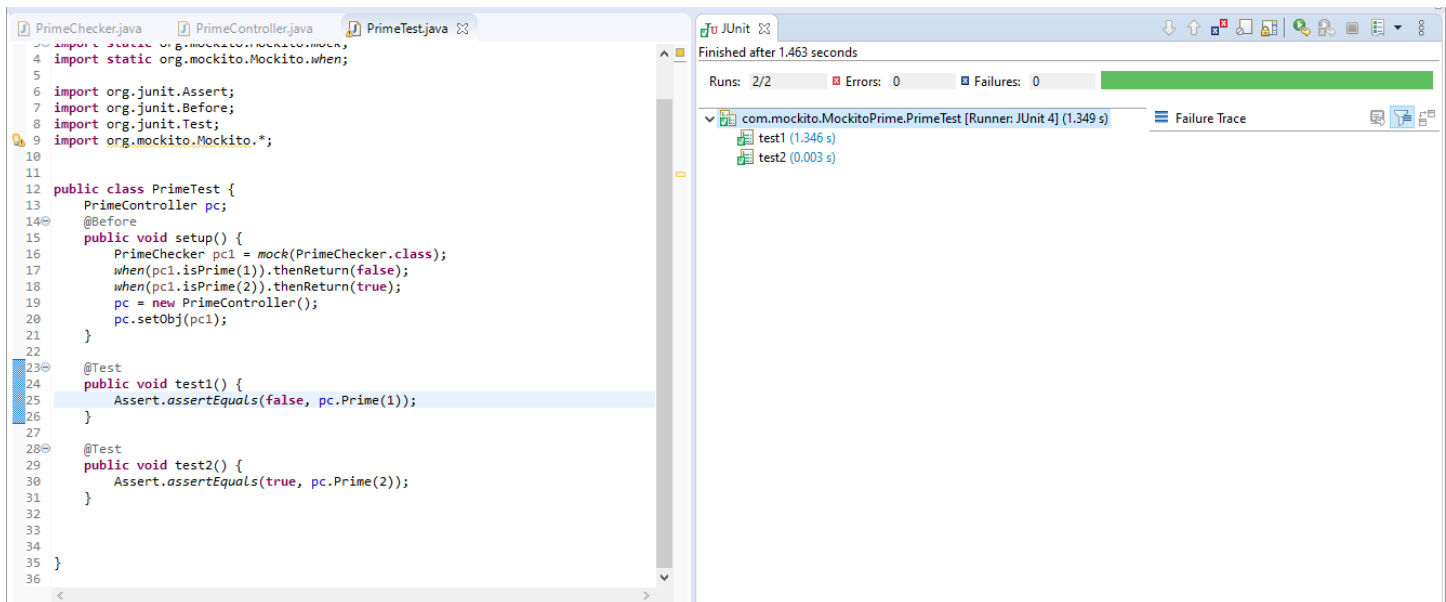
2. Mockito on Prime Number Code

➔ Failing Test1() as isPrime(1) returns false

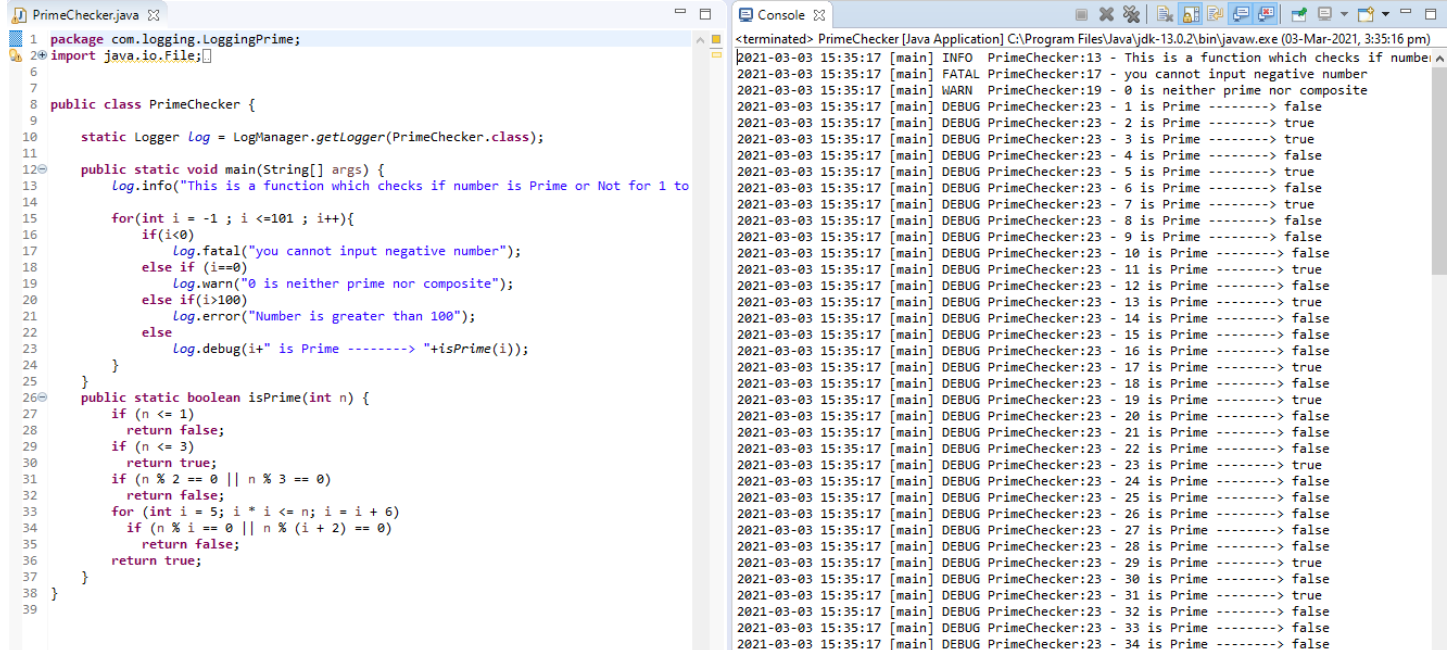
```
PrimeChecker.java PrimeController.java PrimeTest.java
1 package com.mockito.MockitoPrime;
2
3 import static org.mockito.Mockito.mock;
4 import static org.mockito.Mockito.when;
5
6 import org.junit.Assert;
7 import org.junit.Before;
8 import org.junit.Test;
9 import org.mockito.Mockito.*;
10
11
12 public class PrimeTest {
13     PrimeController pc;
14     @Before
15     public void setup() {
16         PrimeChecker pc1 = mock(PrimeChecker.class);
17         when(pc1.isPrime(1)).thenReturn(false);
18         when(pc1.isPrime(2)).thenReturn(true);
19         pc = new PrimeController();
20         pc.setObj(pc1);
21     }
22
23     @Test
24     public void test1() {
25         Assert.assertEquals(true, pc.Prime(1));
26     }
27
28     @Test
29     public void test2() {
30         Assert.assertEquals(true, pc.Prime(2));
31     }
32
33 }
```

```
JUnit
Finished after 1.604 seconds
Runs: 2/2 Errors: 0 Failures: 1
com.mockito.MockitoPrime.PrimeTest [Runner: JUnit 4] (1.562 s)
  test1 (1.558 s)
  test2 (0.003 s)
Failure Trace
ionError: expected:<true> but was:<false>
>.MockitoPrime.PrimeTest.test1(PrimeTest.java:25)
```

➔ No Failures as now for isPrime(1) we are asserting a false



3. Logging on Prime Number Code



[illegible]