



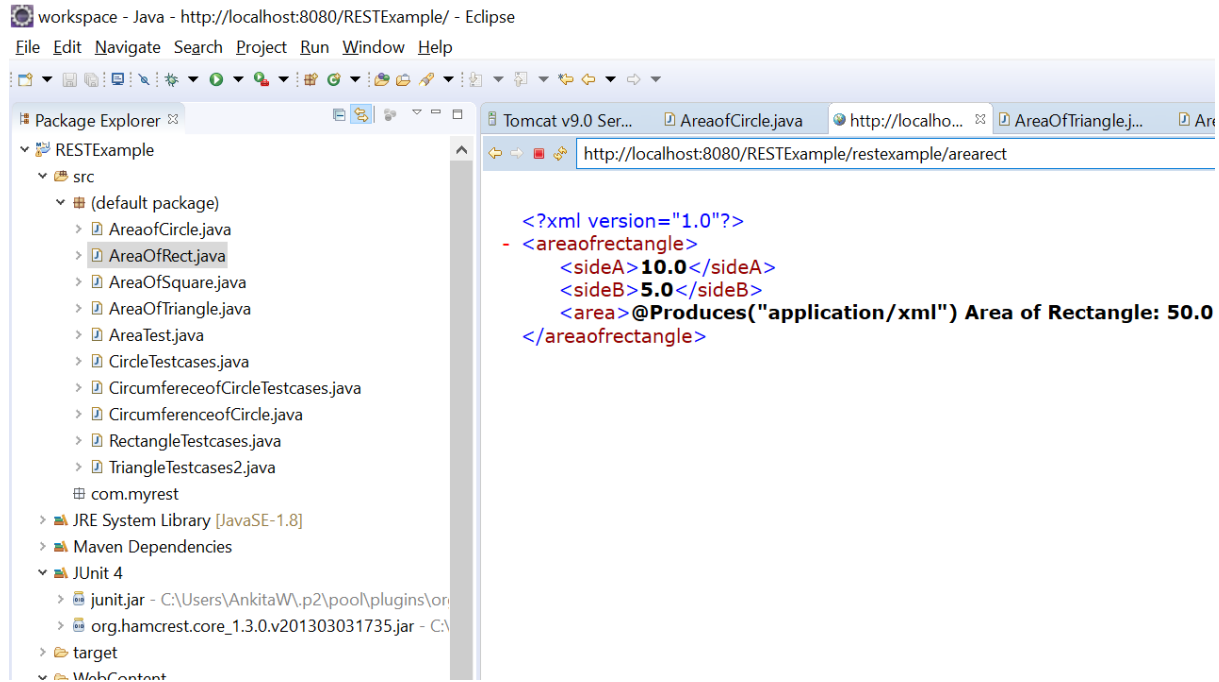
Advance Software Engineering
Assignment 8

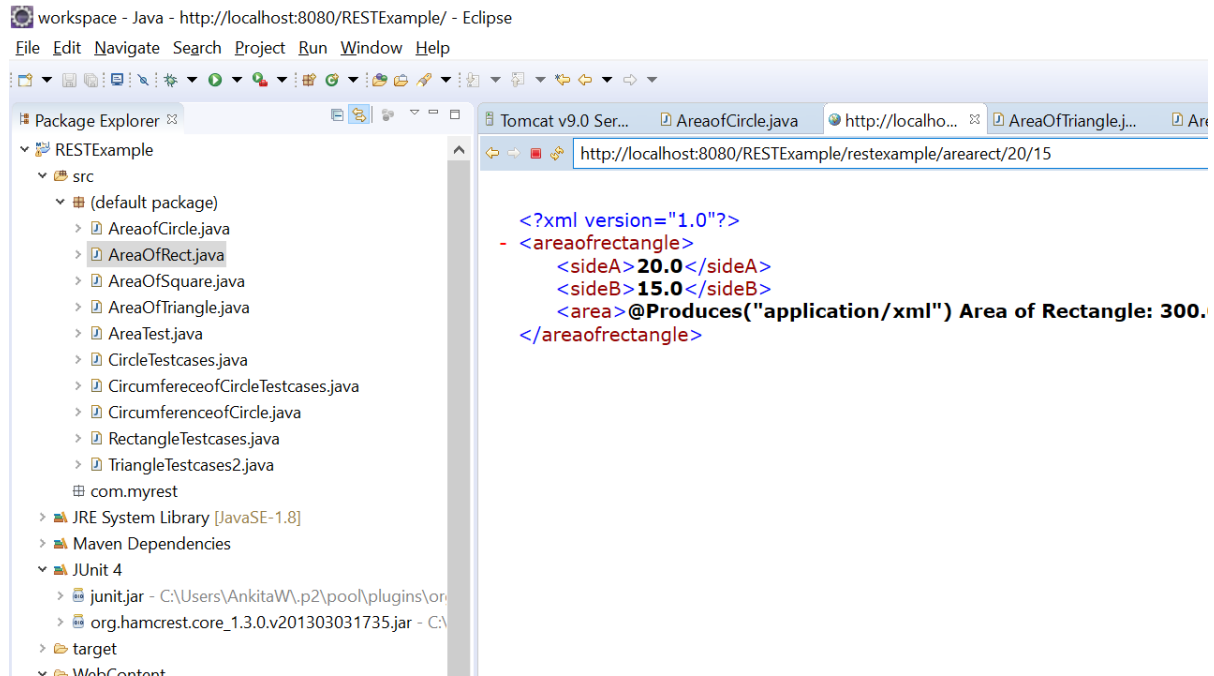
- **Ankita Wankhede**
16233344

REST

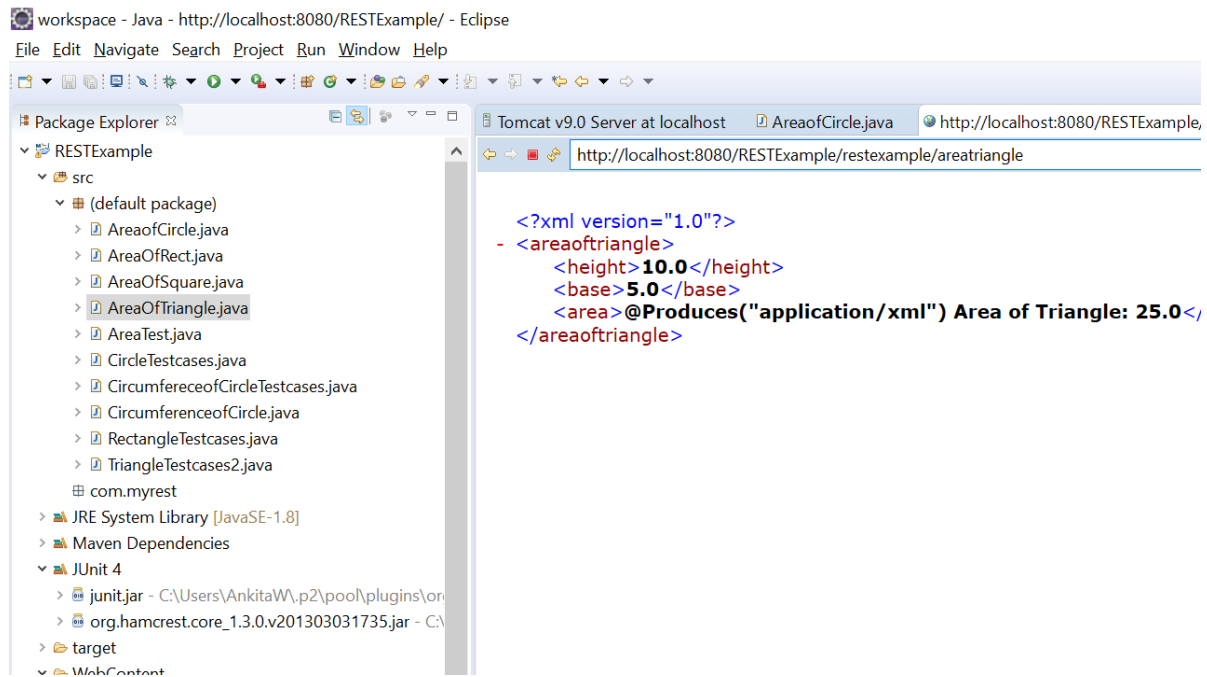
I have created RESTful Java application for following:

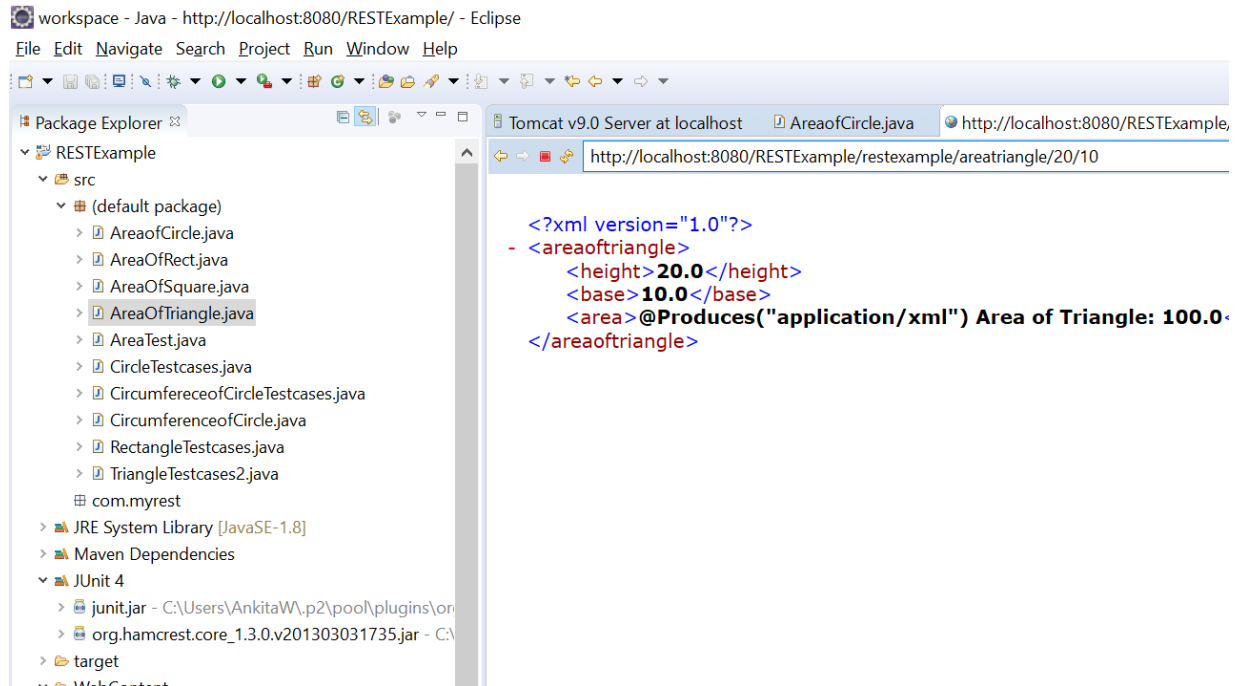
1. Area of Rectangle



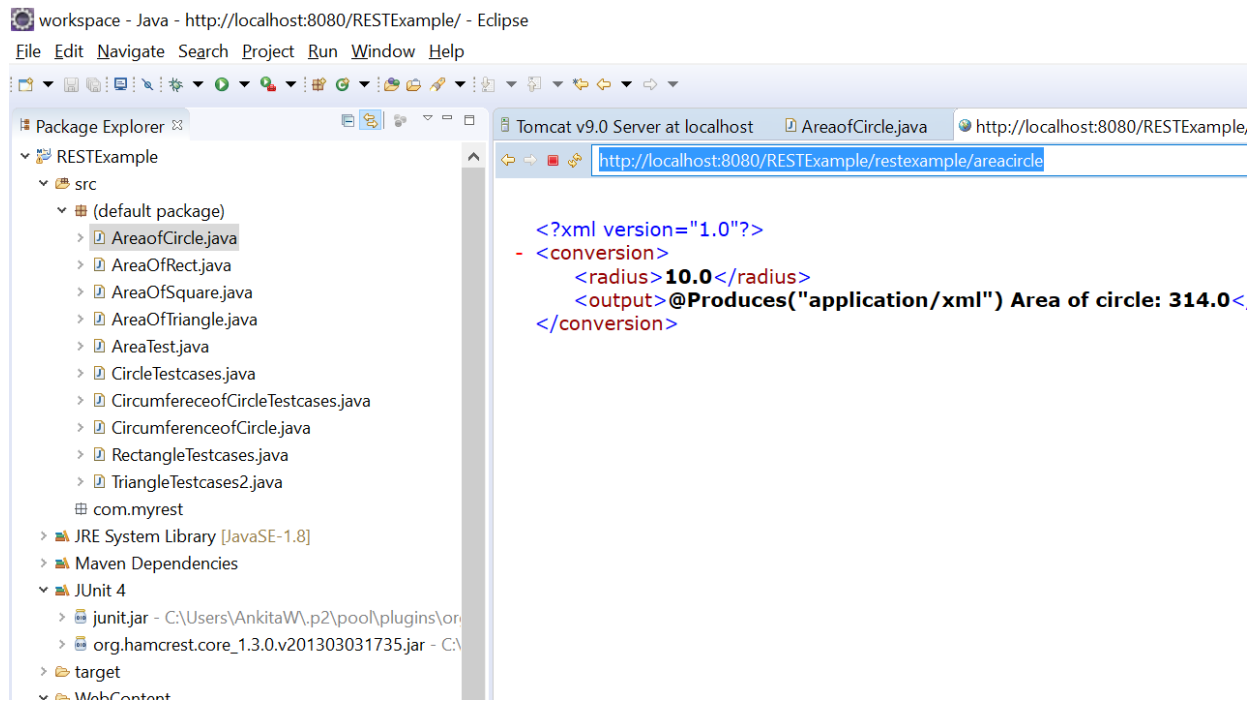


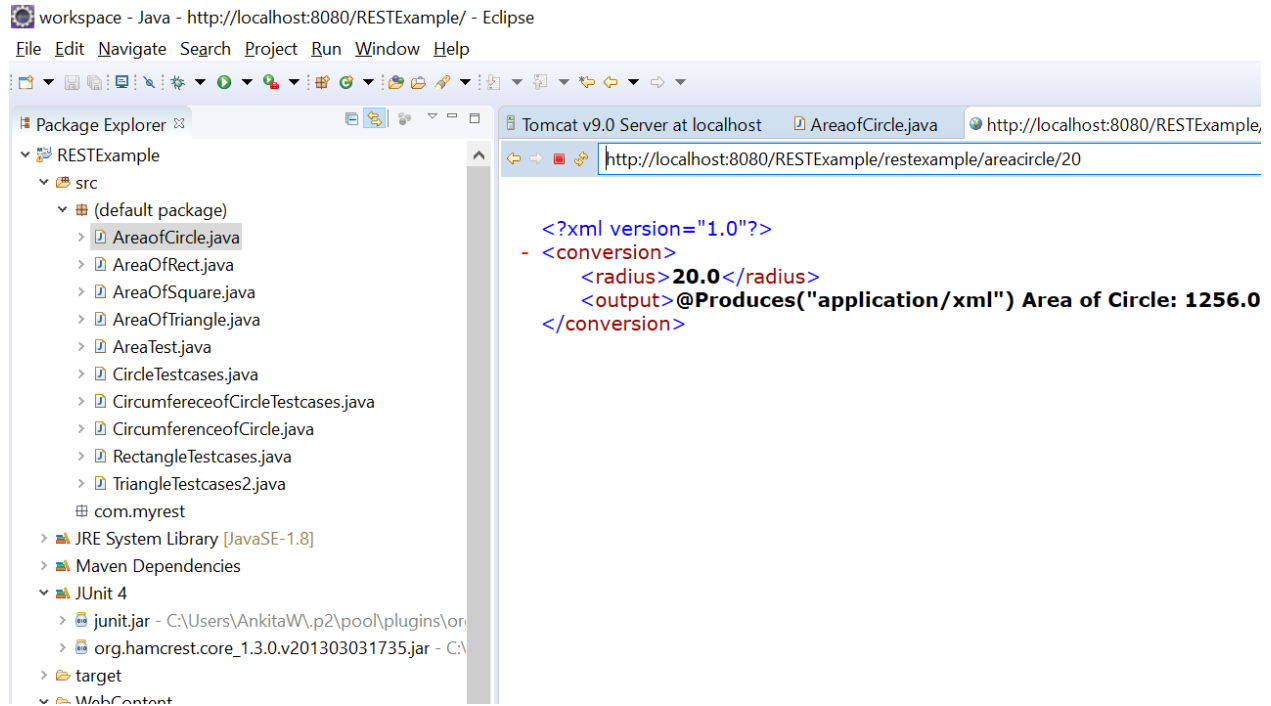
2. Area of Triangle



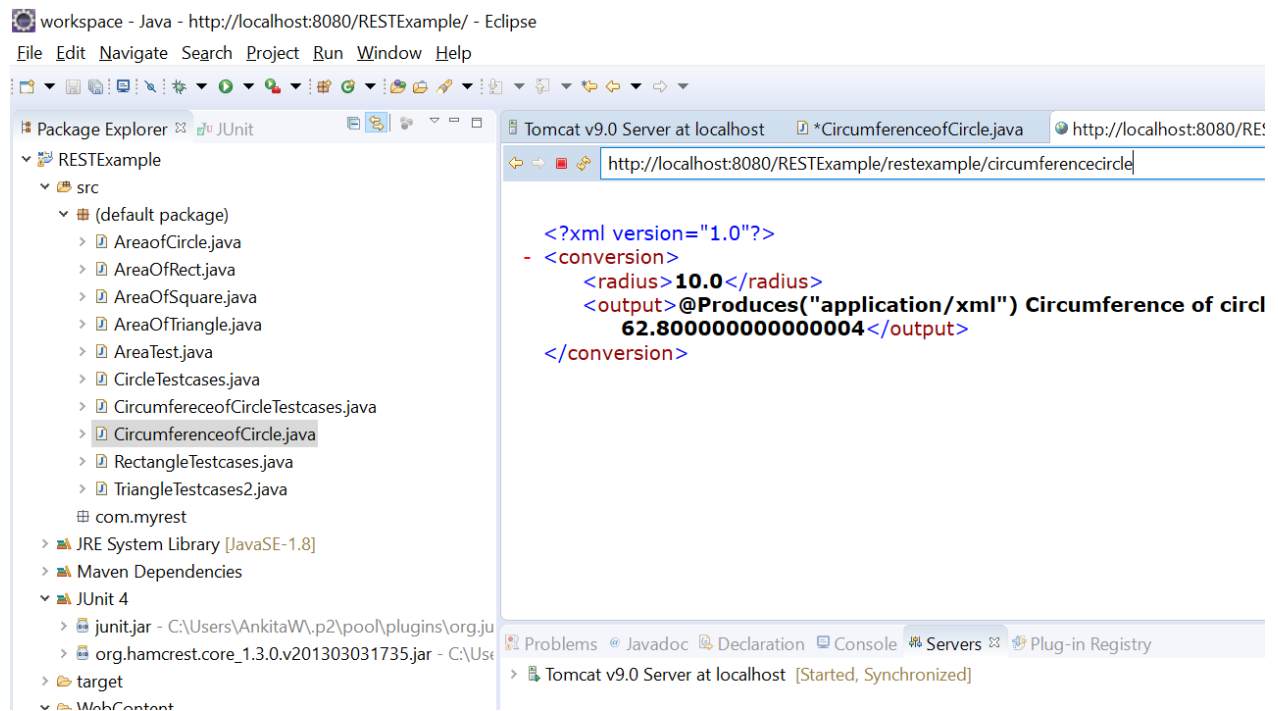


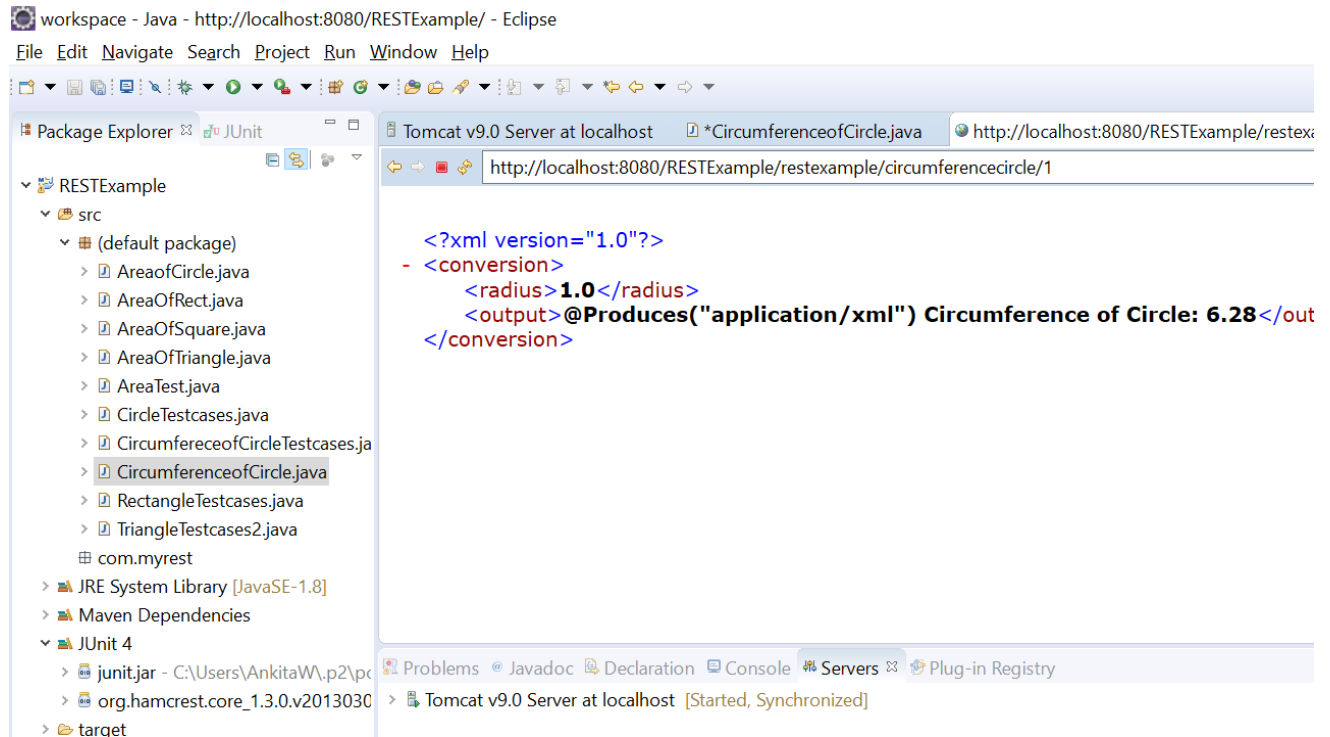
3. Area of Circle





4. Circumference of Circle





Unit Test cases by using Junit

1. Test Case - Area of Rectangle

workspace - Java - RESTExample/src/RectangleTestcases.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit

Finished after 0.018 seconds

Runs: 2/2 Errors: 0 Failures: 0

RectangleTestcases [Runner: JUnit 4] (0.000 s)

- test1 (0.000 s)
- test2 (0.000 s)

Failure Trace

```
1
2
3*import static org.junit.Assert.*;
6
7 public class RectangleTestcases {
8
9     @Test
10    public void test1() {
11        AreaOfRect testcase = new AreaOfRect();
12        String myresult = testcase.rectangleareainput(10.0, 5.0);
13        Double testsideA = 10.0;
14        Double testsideB = 5.0;
15        Double area = 50.0;
16        String res = "@Produces(\"application/xml\") \n Area of Rect";
17        String results = "<areaofrectangle>" + "<sideA>" + testsideA;
18        System.out.println("@Test area(): " + results + " = " + myresult);
19        assertEquals(results, myresult);
20    }
21    @Test
22    public void test2()
```

Problems Javadoc Declaration Console Servers Plug-in Registry

<terminated> RectangleTestcases [JUnit] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe (Oct 19, 2016 10:19:20 AM)
@Test area(): <areaofrectangle><sideA>10.0</sideA><sideB>5.0</sideB><area>

2. Test Case - Area of Triangle

workspace - Java - RESTExample/src/TriangleTestcases2.java - Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer JUnit

Finished after 0.019 seconds

Runs: 2/2 Errors: 0 Failures: 0

TriangleTestcases2 [Runner: JUnit 4] (0.000 s)

- test1 (0.000 s)
- test2 (0.000 s)

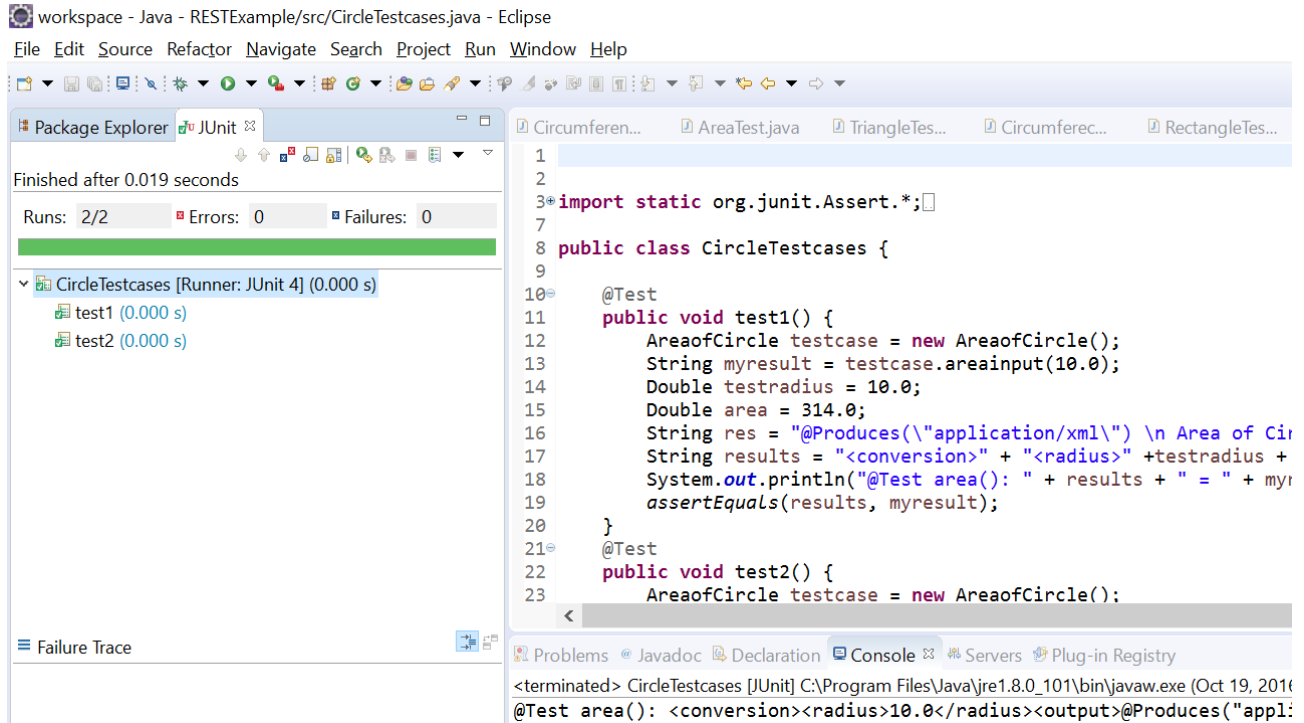
Failure Trace

```
1
2
3*import static org.junit.Assert.*;
6
7 public class TriangleTestcases2 {
8
9     @Test
10    public void test1() {
11        AreaOfTriangle testcase = new AreaOfTriangle();
12        String myresult = testcase.triangleareainput(10.0, 5.0);
13        Double testheight = 10.0;
14        Double testbase = 5.0;
15        Double area = 25.0;
16        String res = "@Produces(\"application/xml\") \n Area of Triangle";
17        String results = ("<areaoftriangle>" + "<height>" + testheight);
18        System.out.println("@Test area(): " + results + " = " + myresult);
19        assertEquals(results, myresult);
20    }
21    @Test
22    public void test2()
```

Problems Javadoc Declaration Console Servers Plug-in Registry

<terminated> TriangleTestcases2 [JUnit] C:\Program Files\Java\jre1.8.0_101\bin\javaw.exe (Oct 19, 2016 10:19:20 AM)
@Test area(): <areaoftriangle><height>10.0</height><base>5.0</base><area>

3. Test Case - Area of Circle



4. Test Case - Circumference of Circle

