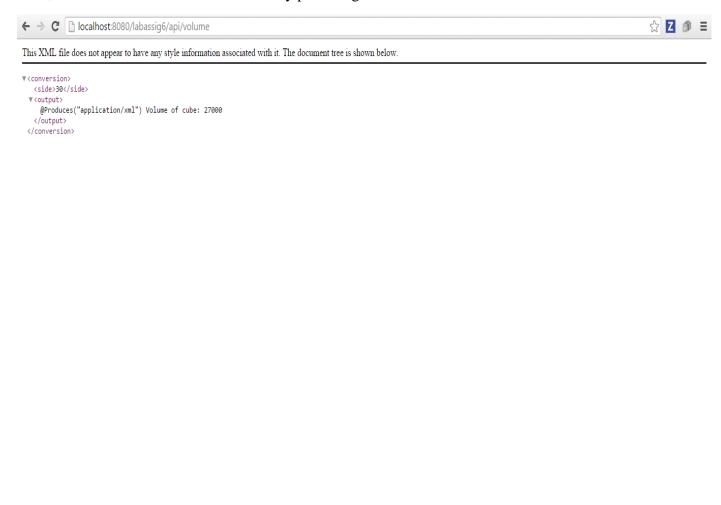
LAB #6

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In this task I implemented a rest service that calculate the volume of a cube and rectangle according to the provided parameters and the output will be produced by running on web server (Apache Tomcat).

Here, we calculate the volume of a cube by providing its side



Here, we received the output in JSON format.(Volume of a rectangle)



Test Cases: (Junit Testing)

For Volume of cube:

```
pom.xml 🗾 Volume.java 🥝 web.xml 🗓 VolRect.java 🗓 VolRectTest.java 🗇 *VolumeTest.java 🖂 📄 CalculateTest.
  1 package com.labassig6.rest;
 3⊕ import static org.junit.Assert.*; [.]
 6
7 public class VolumeTest {
8
9
 119
         @Test
        public void test() {
 12
 13
             Volume testvol = new Volume();
             String d = testvol.volumeofCubeInput(30);
int z = 27000;
String res1 = "@Produces(\"application/xml\") \n Volume of Cube: " + z;
System.out.println("@Test Volume(): " + res1 + " = " + d);
 14
 15
 16
 17
 18
               assertEquals(res1, d);
 19 }
 20
 21
 22 }
 23
```

For Volume of Rectangle:

```
package com.labassig6.rest;
🗗 import javax.ws.rs.core.kesponse; 🗌
public class VolRectTest {
    @Test
    public void test() {
        VolRect test1 = new VolRect();
        Response rectVoltest = test1.volumeOfRectangleInput(10, 4,3);
        public void rectvoltest2() throws JSONException{
            JSONObject jtest = new JSONObject();
            int 1 = 10;
            int b = 4;
             int h = 3;
            int a = 120;
            jtest.put("Length ", 1);
            jtest.put("Breadth ", b);
            jtest.put("Height", h);
             jtest.put("Volume", a);
             String res = "@Produces(\"application/json\") Volume of Rectangle: " + jtest;
            Response d = Response. status(200).entity(res).build();
            Object rectVoltest;
            System.out.println("@Test VolumeofRect():" + rectVoltest + " = " + d);
            assertEquals(rectVoltest, d);
```

Reference:

Code provided in tutorial 6

crunchify.com/create-very-simple-jersey-rest-service-and-send-json-data-from-java-client/

http://crunchify.com/how-to-read-json-object-from-file-in-java/

https://www.youtube.com/watch?v=I8XXfgF9GSc

https://www.youtube.com/watch?v=qU9DmFa45rc