ASE Lab – 6
Rest Services

In this assignment, I have created 2 rest services for the calculation of volume and perimeter of cylinder. I have tested the code by writing the test cases in Junit. I created a local server using the tomcat8.0.

First Rest Service:

Here I have created the rest service for the calculation of volume of a cylinder. Input values have to be provided in the URL. If you provide the input of radius and height, desired volume will be displayed, else zero will be displayed. I have displayed output as xml format.

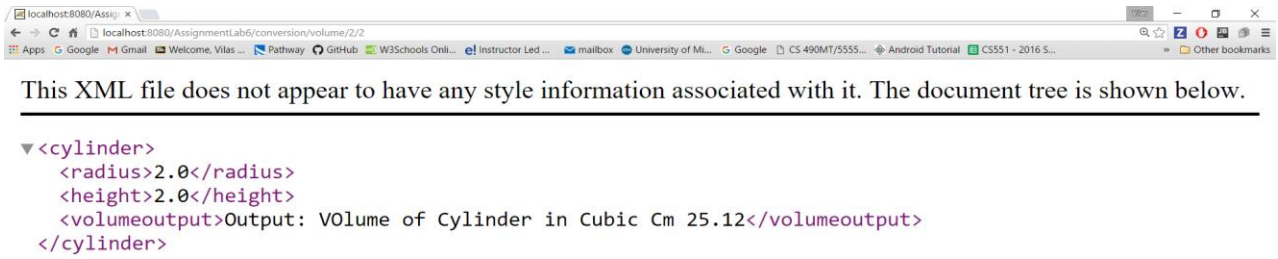

Fig:Volume for given values

Given,

radius = 2,
height = 2
volume = π * R*R*H
= 25.12

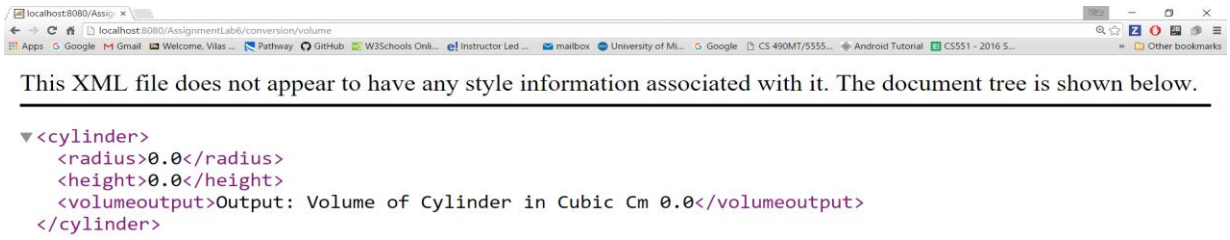

Fig: Volume for default values

Test Case for Volume:

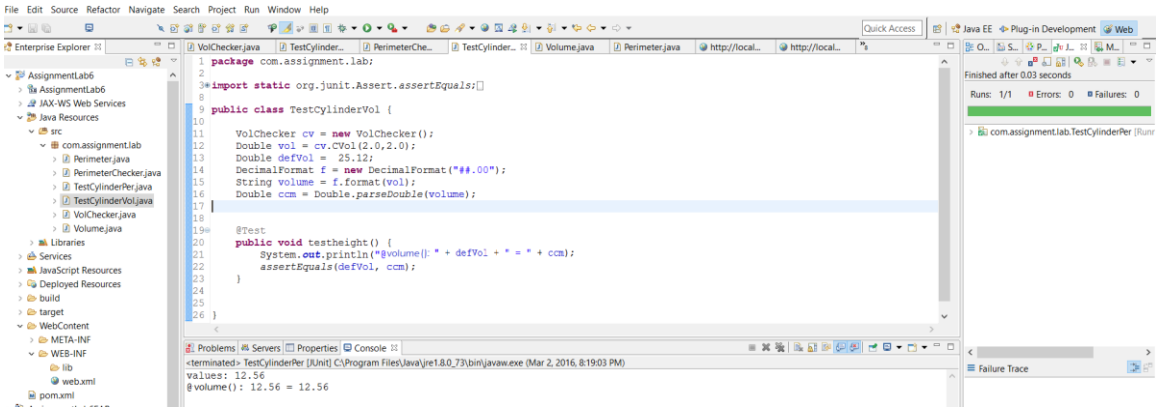

Fig: Success test case for volume.

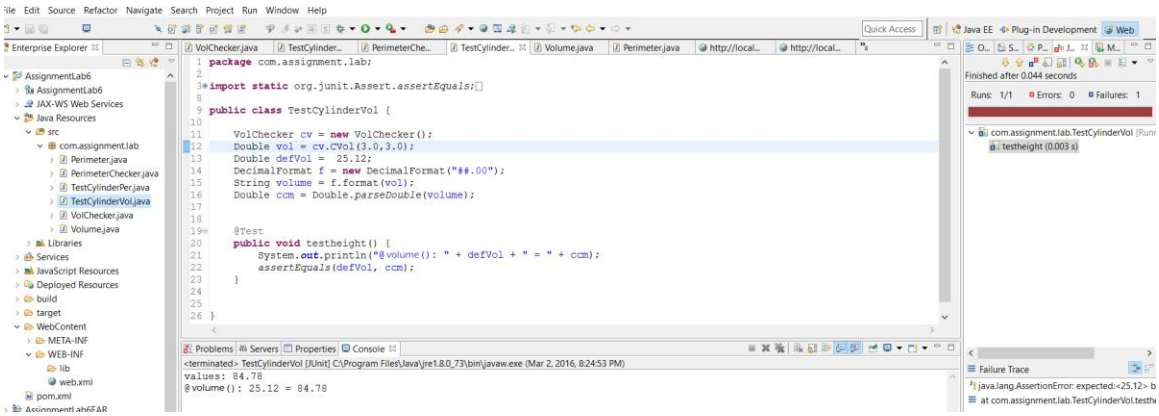

Fig: Failure test case for volume

Rest Service 2:

Here I have created the rest service for the calculation of perimeter of a cylinder. Input values have to be provided in the URL. If you provide the input of radius, desired volume will be displayed, else zero will be displayed. I have displayed output as xml format.

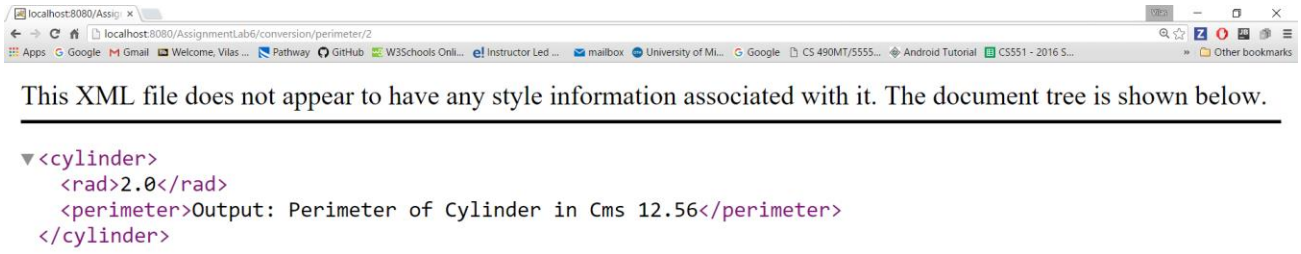

Fig: Perimeter for given values

Given,

radius = 2

perimeter = 2 * π * R

= 12.56

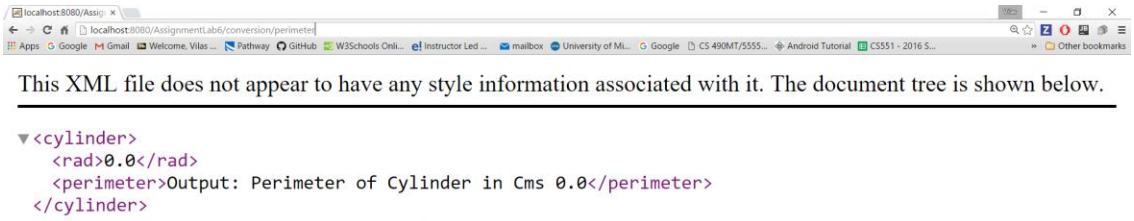

Fig: Perimeter for default value

Perimeter of cylinder=2 * π* r

Given,

r = 0

So Perimeter = 0

Test Case for Perimeter:

Here I have provided default inputs of radius, height and volume. I am comparing the default value with the code value.

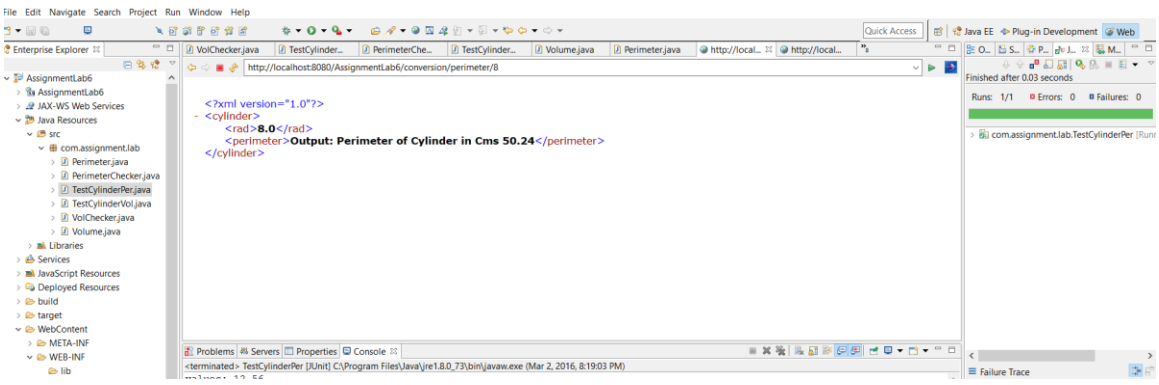

Fig: Success test case

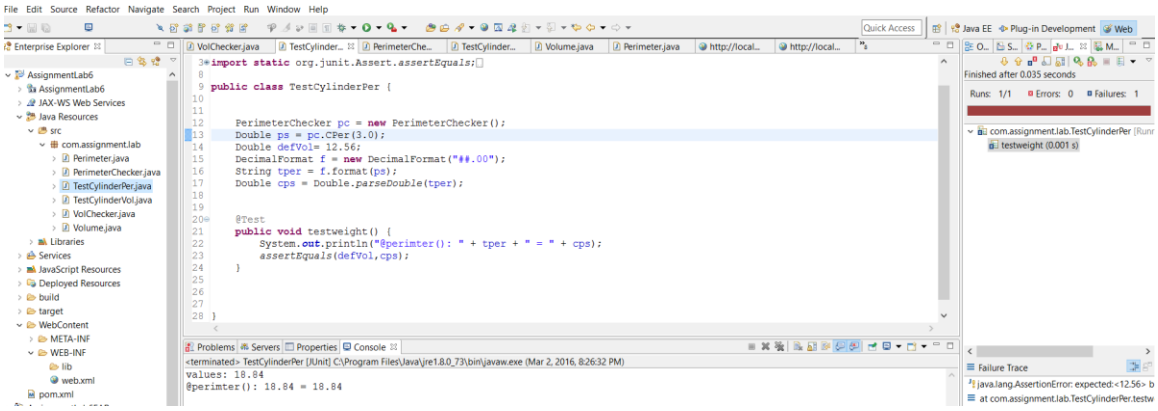

Fig: Failure test case