LAB6 ASSIGNMENT:

Here we have taken the two conversions services. First one is height service. Here takes input as feet and inches and calculates and displays your height in cm as follows:

By default, it will take the input values and displays as below:

This XML file does not appear to have any style information associated with it. The document tree is shown below.

You can give your height also as below (here 5 feet 5 inch is given as input)



This XML file does not appear to have any style information associated with it. The document tree is shown below.

Another service is weight service:

Here it will convert your weight from kg to pounds as well as ounces. By default, it will read default inputs and gives result as below:



This XML file does not appear to have any style information associated with it. The document tree is shown below.

Here you can also give your input weight and see its converted values in pounds and ounces.

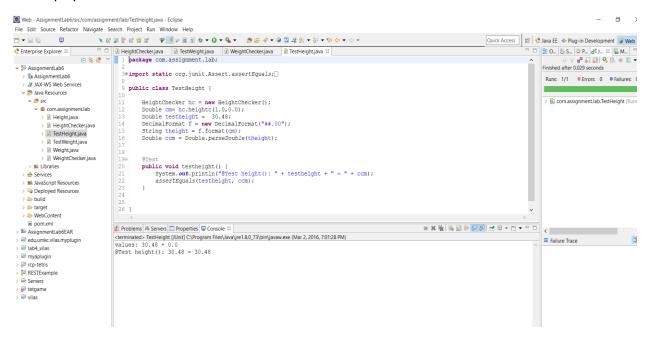


This XML file does not appear to have any style information associated with it. The document tree is shown below.

Testcases:

Here we are having the two test cases related to height and weight. Consider the height here we get the two cases one is success case and failure test case.

The successful test case evaluates the input from the user and calculated value as below and if success will display as below:



Whereas for the failure case you will get the output as below:

```
Web - AssignmentLab6/src/com/assignment/lab/TestHeight.iava - Eclipse
                                                                                                                                                                                                                     o x
File Edit Source Refactor Navigate Search Project Run Window Help
                     文图编号图编图 中月中国国本▼○▼Q▼ ● ● 月▼ ● □ 年刊 ▼ □ ▼ □ ▼ □ ▼
             ₽
                                                                                                                                                                        S Enterprise Explorer ⊠ □ □ S S S
                                                                                                                                                                                        <sup>2</sup> □ № 0. № S... № P... № J... № № M... □
                                □ ☑ HeightChecker.java ☑ TestWeight.java ☑ WeightChecker.java ☑ TestHeight.java 🗵
                                                                                                                                                                                                      1 package com.assignment.lab;
                                                                                                                                                                                            Finished after 0.034 seconds
                                     3@import static org.junit.Assert.assertEquals;
  > 🛅 AssignmentLab6
                                                                                                                                                                                              Runs: 1/1 Errors: 0 Failures: 1
                                  9 public class TestHeight {
10
11 HeightChecker hc = new
12 Double cm= hc.heightc(
13 Double testheight = 4
14 DecimalFormat f = new
15 String theight = f.for
16 Double ccm = Double.pa
17
   > A JAX-WS Web Services
  🗸 🥦 Java Resources

✓ Ø src

                                                                                                                                                                                             Double cm= hc.heightc(1.0,0.0);
Double testheight = 40.48;
DecimalFormat f = new DecimalFormat("##.00");
String theight = f.format(cm);
                                                                                                                                                                                                 testheight (0.001 s)
         → M Height iava
         Double ccm = Double.parseDouble(theight);
         > 🛭 TestWeight.java
         > 

Weight.java
          > 

   WeightChecker.java

                                            public void testheight() {
     > 🚵 Libraries
                                                  System.out.println("@Test height(): " + testheight + " = " + ccm);
  > ∰ Services
> ➡ JavaScript Resources
                                                  assertEquals(testheight, ccm);
   > 🔓 Deployed Resources
  > 🗁 target
     lmx.moq 📓
                                   Problems ₩ Servers ☐ Properties ☐ Console 🖾
                                                                                                                                                  ■ X ¾ 🔒 🔐 👂 👂 💣 🗎 + 📑 + 🗀 -
> 🌥 AssignmentLab6EAR
                                                                                                                                                                                            <
                                    <terminated > TestHeight [JUnit] C\Program Files\Java\jre1.8.0_73\bin\javaw.exe (Mar 2, 2016, 7:02:05 PM) values: 30.48 + 0.0
  edu.umkc.vilas.myplugin
                                                                                                                                                                                             Failure Trace
  Java.lang.AssertionError: expected:<40.48> b
                                    @Test height(): 40.48 = 30.48
  at com.assignment.lab.TestHeight.testheight
 ≥ ₩ rcn-tetris
  RESTExample
> Programme Servers
  <section-header> tetgame
> 🐸 vilas
```

For weight calculation test cases also we have success case and the failure cases

```
- 🗇 X
Web - AssignmentLab6/src/com/assignment/lab/TestWeight.java - Eclipse
 File Edit Source Refactor Navigate Search Project Run Window Help
                                                                                                              No. 20 at 2
 Reference Explorer 

Enterprise Explorer 

Reference Explorer 

Referen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ° 🗆 📴 O... 🖺 S... 🔮 P... 🚮 J... 🗵 👢 M... 😬 🗖
                                                                                                                                                 □ □ HeightChecker.java □ TestWeight.java □ WeightChecker.java
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ŷ ∎ 8 8 8 8 ▼ ▼
     9 public class TestWeight {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Finished after 0.033 seconds
               > % AssignmentLab6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Runs: 1/1 Errors: 0 Failures: 0
                    12 WeightChecker wc = new WeightChecker();
             v 🎏 Java Resources
                                                                                                                                                                                                                   weignttnecker w = new weignttnecker();
Double ps = w.ewightc(1.0);
Double testweight = 2.2;
DecimalFormat f = new DecimalFormat("##.00");
String tweight = f.format(ps);
Double cps = Double.parseDouble(tweight);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   🚡 com.assignment.lab.TestHeight [Runner: J
                       v 🕮 src

→ 

⊕ com.assignment.lab

                                                                                                                                                                          16
17
18
19
                                            > 

| Heightiava
                                              > 🛚 HeightChecker.java
                                              > 🛭 TestHeight.java
                                          > 1 TestWeight.java
                                            > 🛭 Weight.java
                                                                                                                                                                                                                   public void testweight() {
    System.out.println("@Test weight(): " + testweight + " = " + cps);
    Jetus Theoretic Library | Lib
                                              > 

WeightChecker.java
                           > 🚵 Libraries
                                                                                                                                                                                                                                         assertEquals(testweight,cps);
                 > 🙆 Services
             > MayaScript Resources
                 > 🧠 Deployed Resources
             > 🍃 build
             > 🇀 target
               > > WebContent
                       Imx.moq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Problems ♣ Servers ☐ Properties ☐ Console ☼
             AssignmentLab6EAR
                                                                                                                                                                        sterminateds TestHeight [JUnit] C\Program Files\Java\jre1.8.0_73\bin\javawexe (Mar 2, 2016, 659:39 PM)
values: 30.48 + 0.0
@Test height(): 30.48 = 30.48
          edu.umkc.vilas.mvplugin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ■ Failure Trace
             myaplugin
           prcp-tetris
             RESTExample
             Servers
```

Failure case:

```
Web - AssignmentLab6/src/com/assignment/lab/TestWeight.java - Eclipse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - 🗇 X
File Edit Source Refactor Navigate Search Project Run Window Help
# Enterprise Explorer □ □ □ HeightChecker.java □ TestWeight.java □ □ WeightChecker.java □ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                            ↑ $\\ \begin{align*}
 9 public class TestWeight {
        > 😘 AssignmentLab6
> 🚅 JAX-WS Web Services
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Runs: 1/1 Errors: 0 Failures: 1
                                                                                                       WeightChecker wc = new WeightChecker();
Double ps= wc.weightcfl.0);
Double testweight = 3.2;
DecimalFormat f = new DecimalFormat("##.00");
String tweight = f.format(ps);
Double cps = Double.psrseDouble(tweight);
      v 🥦 Java Resources
          v 🅭 src

✓ i com.assignment.lab.TestWeight [Runner:

                                                                                                                                                                                                                                                                                                                                                                                                                                                                atestweight (0.014 s)

    Heightjava
    HeightChecker.java

                     >  TestHeight.iava
                                                                                                       @Test
public void testweight() {
    System.out.println("@Test weight(): " + testweight + " = " + cps);
    assertEquals(testweight,cps);
}
                      > 🖸 TestWeight.java
                     > 🗓 Weight.java
                        > 

WeightChecker.java
            > M Libraries
         Services
       > MayaScript Resources
       > @ Deployed Resources
      > 🗁 target
      > > WebContent
           pom.xml
                                                                                  Problems ₩ Servers □ Properties □ Console ≅
                                                                                                                                                                                                                                                                                                                                                   AssignmentLab6EAR
                                                                                  ■ Failure Trace
     edu.umkc.vilas.mvplugin
     lab4 vilas
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ! java.lang.AssertionError: expected:<3.2> but
     myaplugin
                                                                                                                                                                                                                                                                                                                                                                                                                                                       at com.assignment.lab.TestWeight.testweigh
     RESTExample
     vilas
```