

國立台灣科技大學 – 資訊管理 – IDSL

# Web Services Homework

## Programming Homework #1



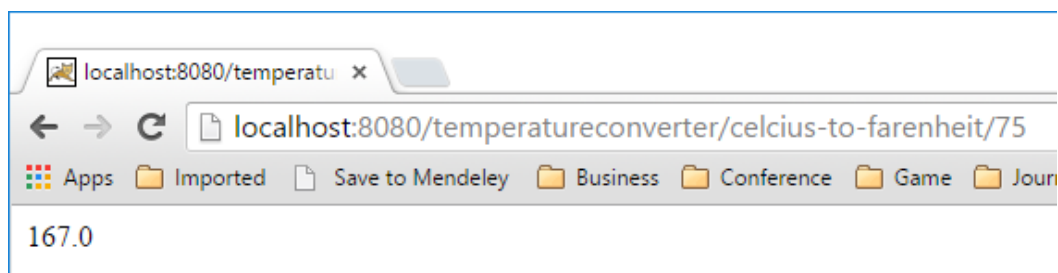
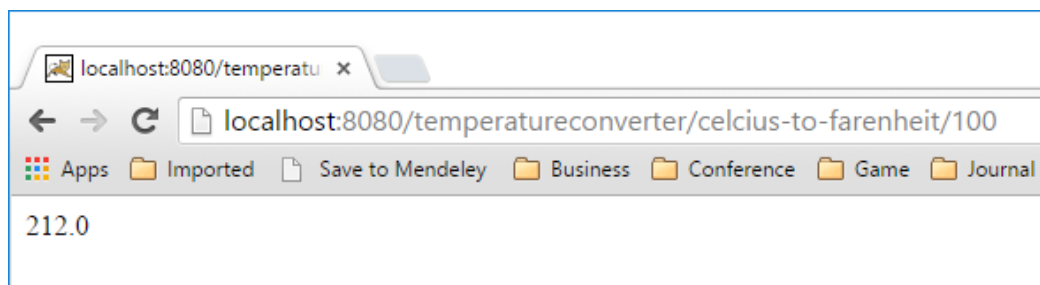
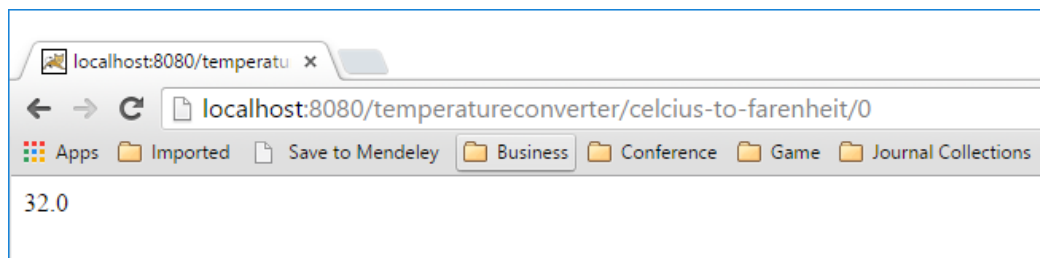
2015

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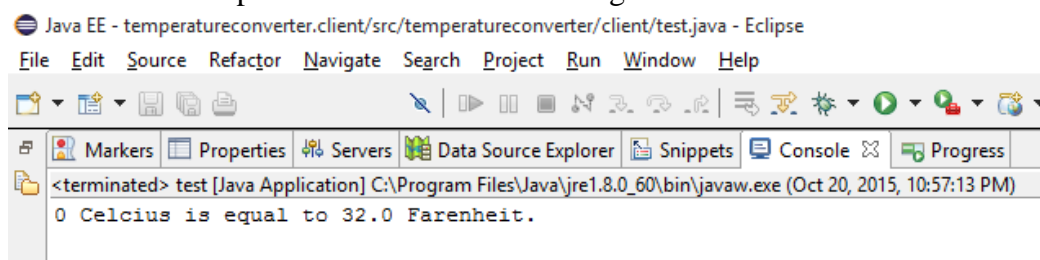
1. Create a simple Web service to convert between different temperature scales (Celcius, Reaumur, Farenheit, Kelvin). For example: Celcius to Farenheit, Celcius to Kelvin, Kelvin to Farenheit, etc. The response of your service can be in form of plain text, XML, HTML, or even JSON.  
(If possible, you should make your service able to convert between all four temperature units.)

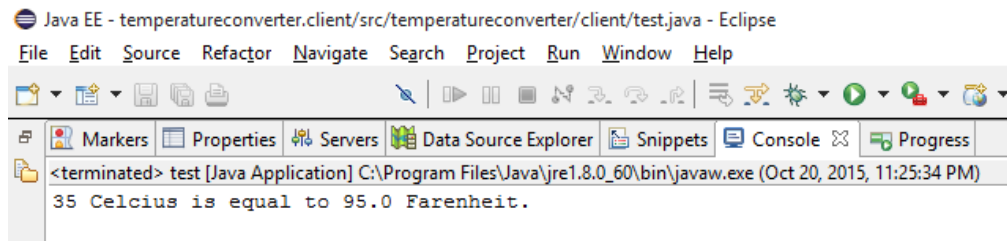
Below is some examples of executing Web service three times to convert an input temperature from Celcius to Farenheit. Notice that the input parameter of temperature is the last part of URL typed in the browser.



2. After you finish creating the Web service of temperature conversion, you should also create a client to test your service. You can write (program) any form of client to consume your Web service, e.g. PHP client, Java client.

Below is an example of a Java client consuming the Web service:





- You should create Web service environment on your own notebook or PC.
- Upon homework submission do not forget to submit both your Web service server and client files. (The whole project of Web service and client with the source codes)
- Compress both your Web service and client projects in one archive file (\*.zip or \*.rar), e.g. programming\_homework\_1.zip

