**Programming Assignment 1: Building a Multi­-Threaded Web Server**

*Pre-requisites*: Eclipse and web browser like chrome.

*Import project in Eclipse:*

1. Download project folder from Canvas.
2. Open Eclipse
3. Go to File tab on top left.
4. Select Import
5. Go to General
6. Select “Existing projects into Workspace”
7. Click Next
8. Go to select root directory and click on Browse
9. Go the path where you have saved the downloaded project.
10. Click finish

*OR*

*Create a new project in Eclipse:*

1. Download project folder from Canvas.
2. Open Eclipse
3. Go to File and select New
4. Select Java Project
5. Give Project Name
6. Click finish
7. Right click on the project just created.
8. Select Class
9. Create two Classes with names WebServer.java and HttpRequest.java
10. Open the files WebServer.java and HttpRequest.java of the downloaded project
11. Copy all the contents and paste to respective files in the Eclipse project.

*Run the project:*

1. Copy any file with extension .htm,.html or jpg or gif and paste inside the Eclipse workspace and inside the project folder you just created but outside bin and src folder.
2. Go to Eclipse and open the project you just created.
3. Run the WebServer.java file
4. Open the console and you will see that “Server started running on port 80”.
5. Open web browser like chrome
6. In URL field , type <http://127.0.0.1:80/filename.html>
7. You will be to see the file content.
8. Open more than one tab and type the same URL and you will see the output for the requested URL.(Multithreading).
9. Go to Eclipse console and see the rest of messages on the server

*Code used from External Source for this assignment:*

1. Programming Assignment 1\_reference\_Java.pdf provided by Professor on Canvas- <https://uta.instructure.com/courses/28912/assignments/474421>
2. <http://www.shubhsblog.com/programming/multithreaded-webserver-java.html>