

Open an eclipse IDE and import all the java projects namely WebService, NewClient, Server2.

- On opening the Web Service java project under the startupmanager postconstruct annotation in the urlconnection add the localhost port number on which your apache tomcat is deployed. Under the string data add the ipaddress and port of your system to make it the load balancer .
- On opening the Server2 project go to startupmanager , under postconstruct annotation in the string data change the ipaddress and port of the server on which you are running the system. In the same postconstruct annotation of urlconnection give the IPv4 address of the server which has the load balancer i.e WebService present in the same system or the other system.
- Similarly, change the ipaddress and port of the server on which you are running the system in the string data under predestroy annotation of server2 project. In the same section under urlconnection give the IPv4 address of the server which has the load balancer i.e WebService present in the same system or the other system.
- Under the new client project in the UrlConnection.java in the string resp section add the ipaddress and the port of the system the client sends the request to.
- Initially run the webapplication.java file which is under the lb section of the web service maven project to initialise the load balancer which also has web services on it.

WebService->src/main/java->edu.umbc.dos.WebService->WebServiceApplication.java

- Similarly, run server2application.java  
Server2->src/main/java->edu.umbc.dos.Server2->Server2Application.java
- Similarly, run UrlConnection.java  
NewClient->src->main->UrlConnection.java

After running it in the above manner the result is displayed in the console which is present in the soap envelope form according to the type of operation that is given in the urlconnection.java of the new client project in the section of string service.

**Note:** wherever it is IP 130.85.252.23 and PORT 8081, change them to your IP and PORT.

Wherever it is IP 130.85.251.167 and port 8082 change them to other systems IP and PORT