Pre-requisites

* Wildfly 8.2.0
* Update the standalne.xml file to add below queue configuration under <jms-destinations> tag -

<jms-queue name="messageQueue">

<entry name="java:/jms/queue/messageQueue"/>

</jms-queue>

Steps for execution -

* Execute Restful Web service
* Copy WAR under deployments folder of Wildfly.
* Once deployed hit application URL http://<hostName>:8080/RestfulWSDemo/
* This will redirect user to applications home page.
* Home page will display two links viz. "Push to Queue" and "Show Queue Data" to User.
* Click "Push to Queue" link submit your data to queue.
* Click "Show Queue Data" link to view the data added in your queue.

Execute SOAP Web service

* Hit wsdl URL http://<hostName>:8080/RestfulWSDemo/MySoapService?wsdl to check your soap service deployed correctly.
* Test all the methods from soap service using Soap UI.
* Click on "Show Queue Data" to check if messages are removed from queue after calculating GCD.

Assumptions –

Assuming that the GCD needs to be stored somewhere for further processing I have used static list to store GCD values. [I tried using “hsqldb” to store GCD values but couldn’t integrate it successfully]