

SSN COLLEGE OF ENGINEERING
Department of Computer Science and Engineering
CS6712 Grid and Cloud Computing Laboratory

Assignment -1 : Developing a Web Service for Simple Calculator

Assigned Date: 19.06.2017.

Due Date: 20. 06.2017 & 23 .06.2017

- I. Create a Web Service for a simple calculator application in Java for the following operations
- i. Arithmetic Operations (Addition, Subtraction, Multiplication, Division, Modulo).
 - ii. Trigonometric Operations. (Sine, Cos, Cosecant, Secant, Tan, Cot)
1. Deploy application on Tomcat / GlassFish Server.
 2. Test the deployed Web Service by giving sample test cases.
 3. Handle the following Exceptions and handle them appropriately by giving correct values.
 - i. Divide by Zero
 - ii. Negative values given for θ in Trigonometric Operations

References

<http://programmerguru.com/webservice-tutorial/how-to-create-java-webservice-in-netbeans/>
<https://netbeans.org/kb/docs/websvc/jax-ws.html>

- II. Develop a Web Service for simple calculator using Apache Axis

1. Install Apache Axis
<https://axis.apache.org/axis2/java/core/docs/installationguide.html>
2. Develop a POJO web service for calculator using Apache Axis on Apache Tomcat
<https://axis.apache.org/axis2/java/core/docs/pojoguide.html>