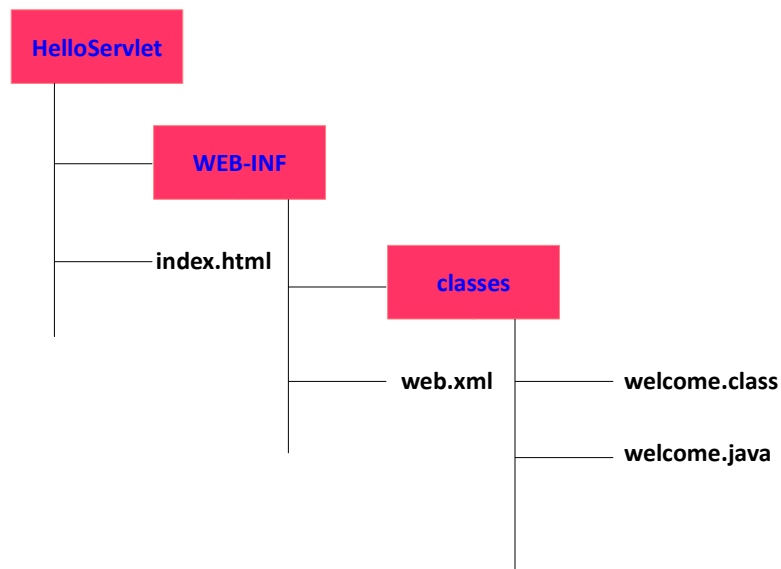


**SSN COLLEGE OF ENGINEERING, KALAVAKKAM**  
**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**Internet Programming Lab – CS6512**  
**Programming Assignment 7 – Hello Servlet using Apache Tomcat Server**

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Write index.html to display form with a submit button. Set the method attribute of the form to “get” to generate GET request to the server. Write a java servlet to display welcome message when the button is clicked. Write also the configuration file, namely, web.xml which maps the url mapped to the servlet class file.

Follow the directory structure for creating HelloServlet Web application and follow the guidelines below to configure and deploy web application.



Assuming java is working on your laptop/desktop, To check, go to command prompt and type  
>javac

Download tomcat from tomcat official website Extract in to say C drive

#### **How to install tomcat? (For Windows)**

You need to create an *environment variable* called "JAVA\_HOME" and set it to your JDK installed directory.

1. First, take note of your JDK installed directory. The default is "c:\Program Files\Java\jdk1.8.0\_{xx}", where {xx} is the latest upgrade number. It is **important** to verify your JDK installed directory, via the "Computer", before you proceed further.
2. Start a CMD shell, and issue the command "set JAVA\_HOME" to check if variable JAVA\_HOME has been set:
3. > **set JAVA\_HOME**  
Environment variable JAVA\_HOME not defined  
If JAVA\_HOME is set, check if it is set to your JDK installed directory correctly. Otherwise, goto next step.
4. To set the environment variable JAVA\_HOME in Windows 2000/XP/Vista/7/8: Push "Start"

button ⇒Control Panel ⇒System ⇒(Vista/7/8) Advanced system settings ⇒Switch to "Advanced" tab ⇒Environment Variables ⇒System Variables ⇒"New" (or "Edit" for modification) ⇒In "Variable Name", enter "JAVA\_HOME" ⇒In "Variable Value", enter your JDK installed directory (e.g., " c:\Program Files\Java\jdk1.8.0\_{xx}").

5. To verify, **RE-START** a CMD shell (need to refresh the environment) and issue:

6. > **set JAVA\_HOME**

JAVA\_HOME=c:\Program Files\Java\jdk1.8.0\_{xx} <== Verify that this is YOUR JDK installed directory

#### **How to set class path?**

1. Go to tomcat home directory and browse to .../lib/
2. Copy the path
3. Go to environment variables and under system variables create a new entry with  
Variable name = CLASSPATH  
Variable value = <the url you have just copied>
4. Save and exit.

#### **How to run the web application?**

1. Copy the HelloServlet application in webapps folder
2. Navigate to tomcat directory, go to bin
3. Execute startup.bat
4. Wait for the server to start
5. Open browser and navigate to the url : localhost:8080
6. A tomcat demo page will be displayed.
7. To run firstservlet navigate to the url : <http://localhost:8080/HelloServlet>