Basic Eclipse and Tomcat Tutorial

1. Download tomcat server from [Apache Tomcat](#).
2. Unzip the compressed archive. You should see a folder with ***apache-tomcat-7.0.73*** name.
3. The relevant directory structure of the **apache-tomcat-7.0.73** is as follows.
bin/startup.sh	shell script to start Tomcat server
bin/shutdown.sh	shell script to stop Tomcat server
lib	Tomcat Java libraries
logs	Tomcat server logs
webapps	applications directory

4. Create a new Eclipse Java project named **TomcatTutorial** with the following settings.
    Default project output folder: classes
    Library: add servlet-api.jar
    Create additional folders and files as per slide#44 of lecture slides

    You can also import the given TomcatTutorial.zip Eclipse project to work with a ready made project.
    NOTE: Eclipse code editor can't easily modify XML and HTML files. You need to use *gedit* application to edit these files.

5. The Eclipse project development structure for **TomcatTutorial** is as follows.

    ```
    TomcatTutorial/
          classes/
               Hello.class
          etc/
               web.xml
          src/
               Hello.java
          web/
               index.html
    ```

6. The deployment directory structure for TomcatTutorial is as follows. The top-level folder **hello** has to be placed in **webapps/** directory.

    ```
    hello/
          index.html
          WEB-INF/
                    web.xml
                    classes/
                             Hello.class
    ```

7. See Lab-10/skeleton folder for two compressed files: **TomcatTutorial.jar** and **hello.zip**

8. Start Tomcat server from terminal by using the following commands.
    cd apache-tomcat-7.0.73
    bin/startup.sh

    If you need to restart Tomcat server, follow these commands.
    bin/shutdown.sh
    bin/startup.sh

9. Open Firefox browser and go to URL: http://localhost:8080/hello
    You should see a form with submit button.

10. Once you fill the form and click submit button, a new page appears with filled in information.

11. The Hello.class servlet itself is directly accessible at URL: http://localhost:8080/hello/hello