### PART A-Download and configure eclipse IDE and tomcat server

- 1. Download Eclipse and Tomcat zip folder of any version(try choosing latest version)
- 2. Set runtime environment of tomcat in eclipse
  - Windows
  - Preferences
  - Server
  - Runtime environment
  - Choose the version of apache
  - Then add the path of the tomcat includes all the folders.
- 3. Add the server

#### PART-B

Let's see the steps, you need to follow to create the first servlet example.

- create a servlet
- o add servlet-api.jar file
- Run the servlet

o Create a Dynamic web project 11. Write a java servlet program that takes name and age from an HTML page. If the age is less than 18, it should send a page with "Hello \_ \_(name), you are not authorized to visit the site" message, in the message should be replaced with the entered name. Otherwise it should send "Welcome to this site" message.

12. Write a java program using JSP that takes a name as input and has a submit button, on clicking submit button it shows a hello <name> page where name is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name > message with the duration of usage (hint: Use session to store name and time)

# 1) Create the dynamic web project:

For creating a dynamic web project

click on File Menu -> New -> Dynamic web project -> write your project name e.g. first -> Finish.

### 2) Create the servlet in eclipse IDE:

For creating a servlet, explore the project by clicking the + icon -> explore the Java Resources -> right click on project or application -> New -> servlet -> write your servlet name e.g. Hello -> uncheck all the checkboxes except doGet() -> next -> Finish.

## 3) add jar file in eclipse IDE:

For adding a jar file, right click on your project -> Build Path -> Configure Build Path

- -> click on Libraries tab in Java Build Path -> click on Add External JARs button
- -> select the servlet-api.jar file under tomcat/lib -> ok.

# 4) Start the server and deploy the project:

For starting the server and deploying the project in one step, Right click on your project -> Run As -> Run on Server -> choose tomcat server -> next -> addAll -> finish.

### Program 11

index.html:

import javax.servlet.http.\*;

public class VoterSrv extends HttpServlet

A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "Hello, you are not authorized to visit the site" message, where should be replaced with the entered name. Otherwise it should send "Welcome to this site" message.

AIM: To design an application to validate age are less than 18 or more than 18 using SERVLET.

```
<html
  <head>
       <title>VoterApp</title>
     </head>
     <body>
       <form action= "http://localhost:8080/CheckAge/check" method="get">
         <fieldset style="width:20%; background-color:#80ffcc">
            Name<input type="text" name="name">
              Age<input type="text" name="age">
              <input type = "submit" value="Check Eligibility">
     </fieldset>
       </form>
     </body>
  </html>
VoterSrv.java:
  import java.io.*;
  import java.util.*;
  import javax.servlet.*;
```

```
public void service(HttpServletRequest reg, HttpServletResponse res) throws
       IOException, ServletException
            //set response content type
             res.setContentType("text/html");
            //get printWrite obj
            PrintWriter pw = res.getWriter();
            //read form data from page as request parameter
            String name = req.getParameter("name");
            int age = Integer.parseInt(req.getParameter("age")); if (age>=18)
            pw.println("<font color='green' size='4'>Welcome "+name+" to this
   site</font>");
            else
   pw.println("<font color='red' size='4'>Hello "+name+", you are not authorized to visit the
   site</font>");
            //add hyperlink to dynamic page
             pw.println("<br><a href= 'index.html'>back</a>");
            //close the stream
            pw.close();
web.xml:
   <web-app>
       <servlet>
         <servlet-name>abc</servlet-name>
          <servlet-class>VoterSrv</servlet-class>
       </servlet>
       <servlet-mapping>
         <servlet-name>abc</servlet-name>
          <url-pattern>/check</url-pattern>
       </servlet-mapping>
   </web-app>
```

12. A web application that takes a name as input and on submits it shows a hello <name> page where name is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank You <name > message with the duration of usage (hint: Use session to store name and time) USING JSP.

#### Sessionjsp.html

```
<html>
   <head> <title> SESSION LOGIN </title> </head>
   <body>
   <center>
   <form action="http://localhost:8080/jsp/Session1.jsp"</pre>
   method="get"> Enter Name: <input type="text"
   name="uname"> <br>
   <input type="submit" value="LOGIN" name="register">
   </form>
   </center>
   </body>
   </html>
Session1.jsp
   <%@page language="java" import="java.util.*" errorPage=""%>
   <form method="get" action="http://localhost:8080/jsp/Session2.jsp">
   <%
   Date d=new Date();
   %>
    Time;<%=d.getTime()%>
   <%
   String
   un=request.getParameter("uname
   ");
   session.setAttribute("user",un);
   session.setAttribute("time",d.getT
   ime());
   %>
   Hello <%=un%>
   <br/>br><br/>>
   <input type="submit" value="logout">
   </form>
Session2.jsp
   <%@page language="java" import="java.util.*" errorPage=""%>
   <%
   Date d2=new Date();
   String
   un=(String)session.getAttribute("user
   "); Long
   t1=(Long)session.getAttribute("time")
   ; Long t2=d2.getTime();
   Thank you <%=un%>
```

<br/>br><br/>>

Session duration: <%=(t2-t1)/(60\*60)%> seconds <% session.invalidate();%>