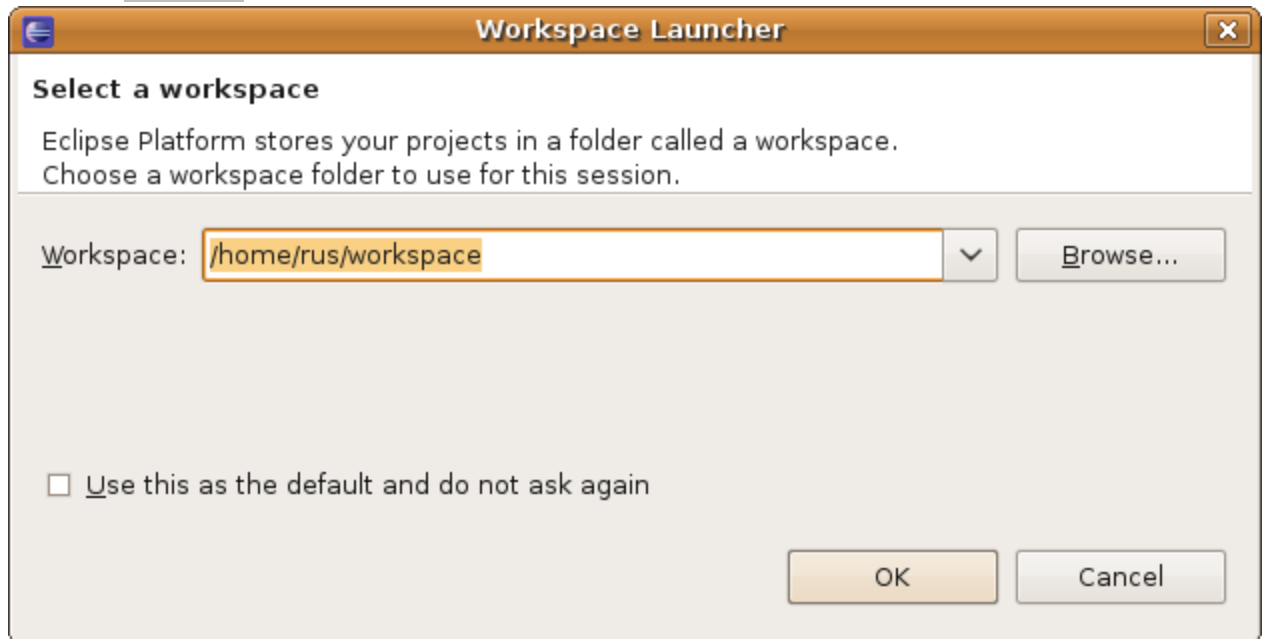


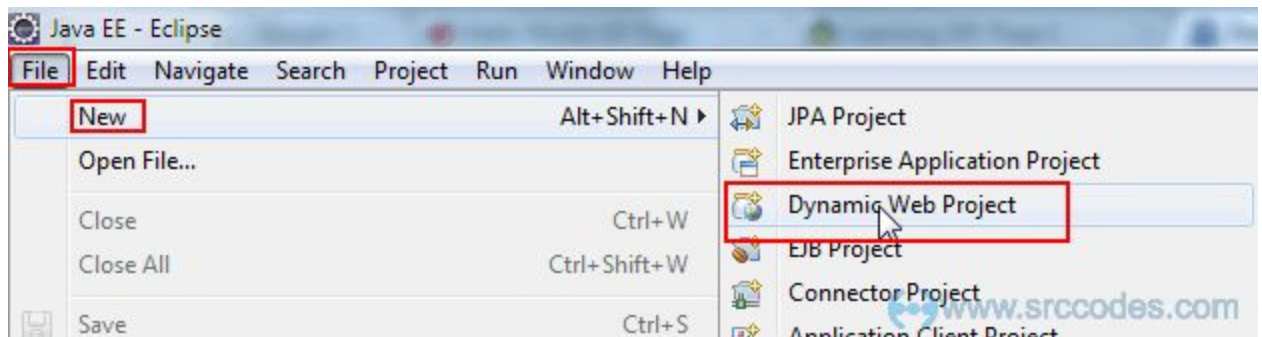
STEPS TO CREATE SERVLET USING ECLIPSE IDE

1. Download and install Tomcat software (exe file, present eclipse version compatible)
2. Open a terminal and start eclipse
3. \$ **eclipse**



Create Dynamic Web Project

Select from the menu File --> New --> Dynamic Web Project.



Enter "HelloWorldServlet" as the project name. Keep rest of the settings as it is as shown in the following screenshot.

Dynamic Web Project

Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.



Project name: HelloWorldServlet

Project location

☒ Use default location

Location: D:\hksws_new1\HelloWorldServlet Browse...

Target runtime

Apache Tomcat v8.0 New Runtime...

Dynamic web module version

3.1

Configuration

Default Configuration for Apache Tomcat v8.0 Modify...

A good starting point for working with Apache Tomcat v8.0 runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

☐ Add project to an EAR

EAR project name: EAR New Project...

Working sets

☐ Add project to working sets

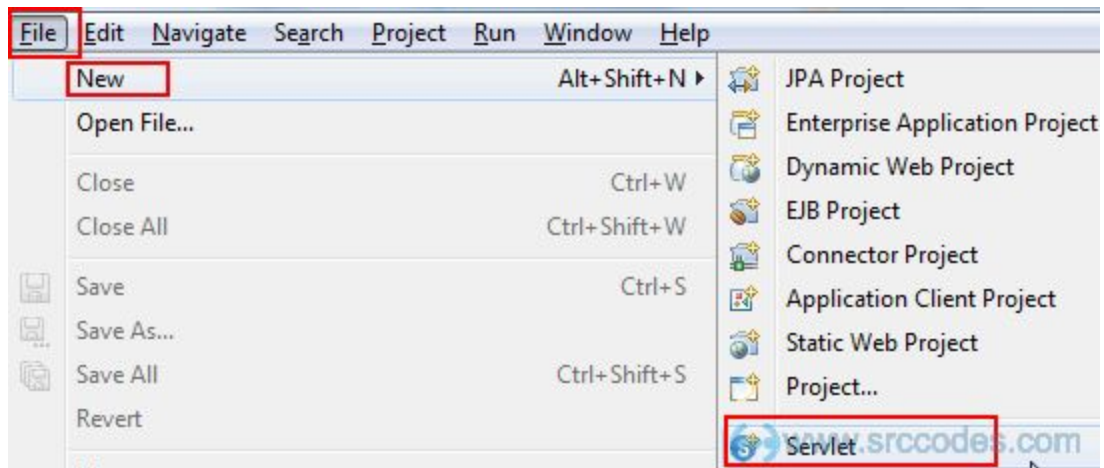
Working sets: Select...

? < Back Next > Finish Cancel

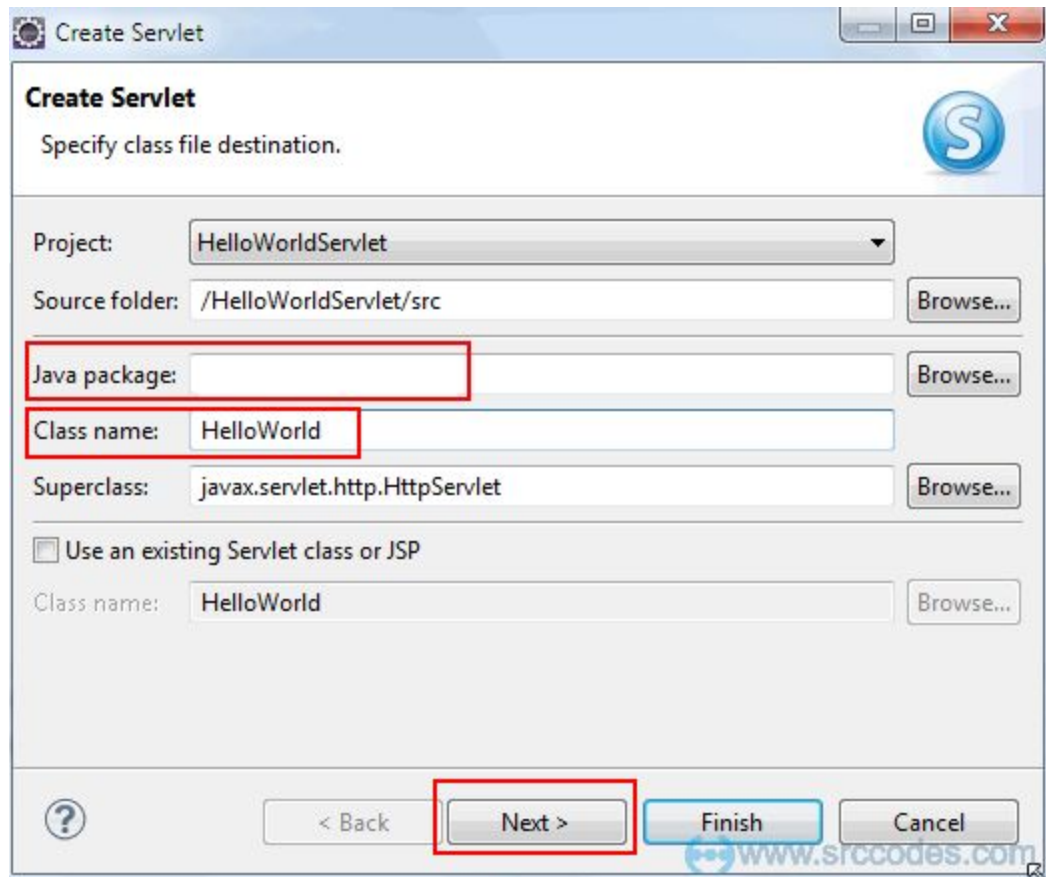
Click "Finish" button.

2. Create Servlet Class

Select from the menu File --> New --> Servlet.



Write "HelloWorld" in the 'Class Name' field. Click 'Next' button.



We can specify deployment descriptor (*web.xml*) specific information in the following screen. Just keep every thing as it is for the time being. Click "Next" button.

Create Servlet

Enter servlet deployment descriptor specific information.

Name: HelloWorld

Description:

Initialization parameters:

| Name | Value | Description |
|------|-------|-------------|
| | | |

URL mappings:

| |
|-------------|
| /HelloWorld |
|-------------|

< Back **Next >** Finish Cancel

Click 'Finish' button.

Eclipse will generate a Servlet class based on the configuration / input we provided in the previous steps and open the same in the Java Editor as shown below

4. Write Custom Code

File: HelloWorld.java

Note :

Notice the highlighted line number 13 in the above code. `"/HelloWorld"` is the servlet url that we need to specify in the browser url to access the same. This is annotation based approach to define servlet mapping. We can do the same in `web.xml` file as well. For simplicity we are moving forward with the

5. Run Your Servlet Code

Right click on the project 'HelloWorldServlet' and select from context menu 'Run As' --> 'Run on Server'.

HelloWorldServlet

```
package com.srccodes.example;
```

JAX-WS Web
Deployment D
Java Resource
src
Libraries
JavaScript Res
build
WebContent
META-INF
WEB-INF
lib
web.xr
Servers

New
Go Into
Show In Alt+Shift+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Build Path
Refactor Alt+Shift+T
Import
Export
Refresh F5
Close Project
Close Unrelated Projects
Validate
Show in Remote Systems view
Run As
Debug As
Profile As
Team
Compare With

```
ption;  
Writer;  
  
ServletException;  
annotation.WebServlet;  
http.HttpServlet;  
http.HttpServletRequest;  
http.HttpServletResponse;
```

```
ation class HelloWorld
```

```
orld")  
ld extends HttpServlet {  
inal long serialVersionUID = 1L
```

```
let#HttpServlet()
```

```
d() {
```

```
-generated constructor stub
```

Servers Data Source Explorer Snip

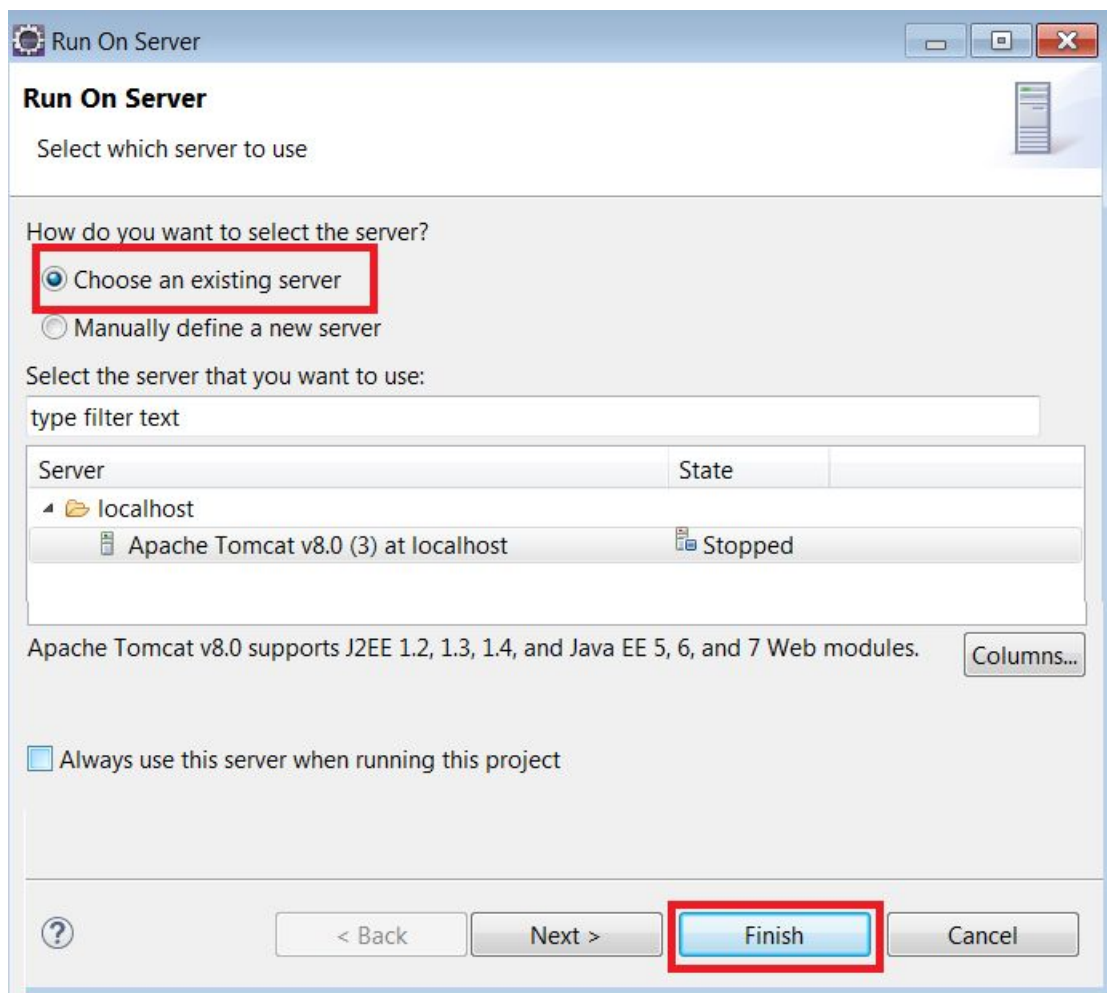
e.

1 Run on Server Alt+Shi

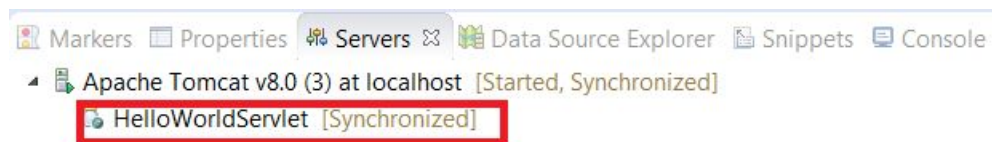
2 Java Applet Alt+Shi

3 Java Application Alt+Sh

Run Configurations...



Click "Finish" button. HelloWorldServlet web application will be deployed in the tomcat web server.



6. Browser Output

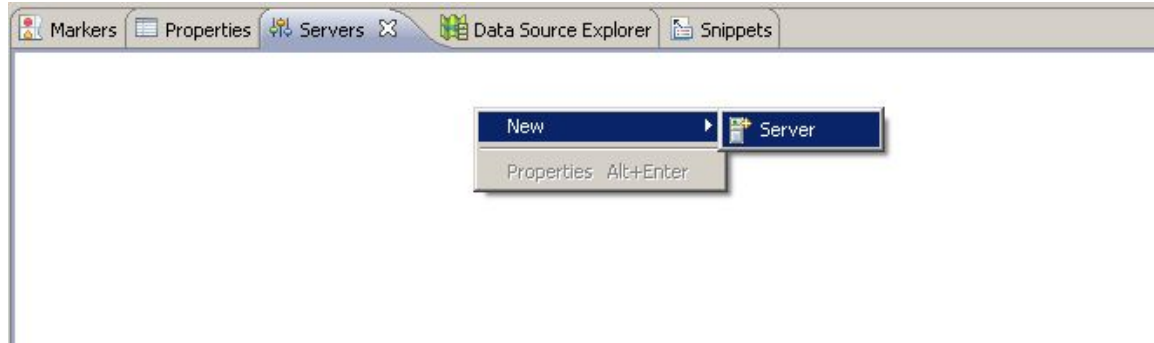
Eclipse will open a browser and your server side code will print 'Hello World!' in the browser.



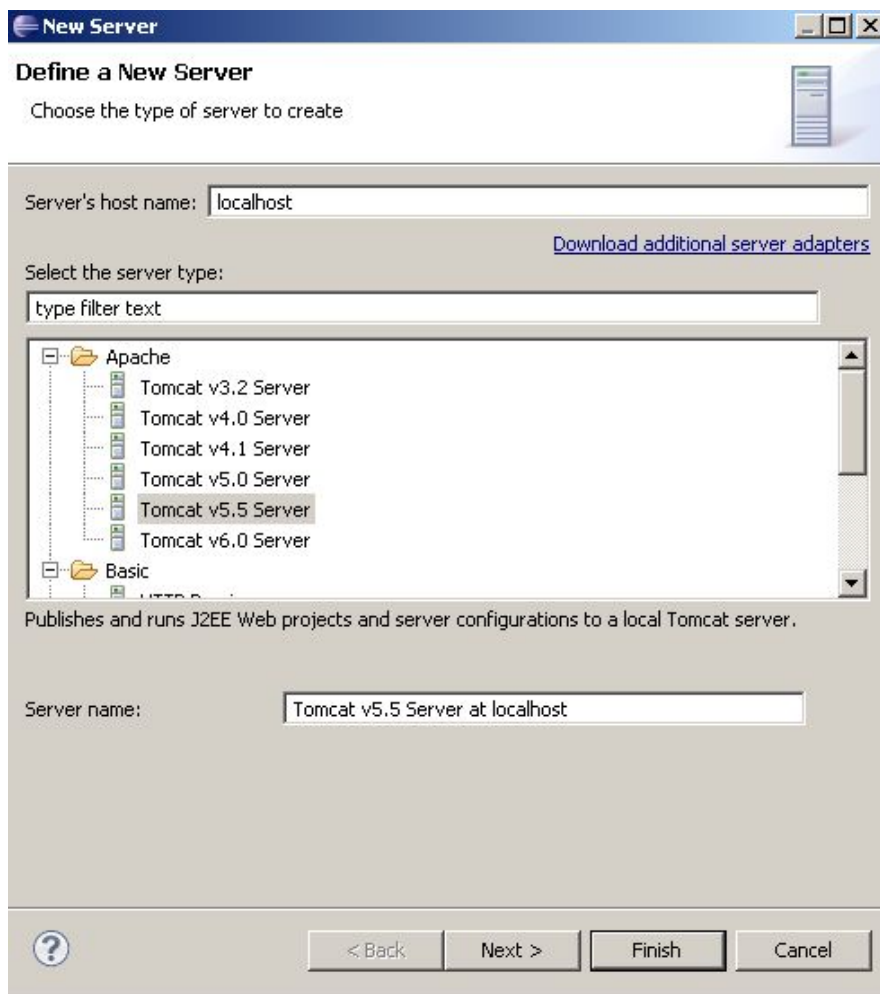
Select the existing tomcat server. If not available then manually define a new web server.

Go to Console window (see Down side window pane)

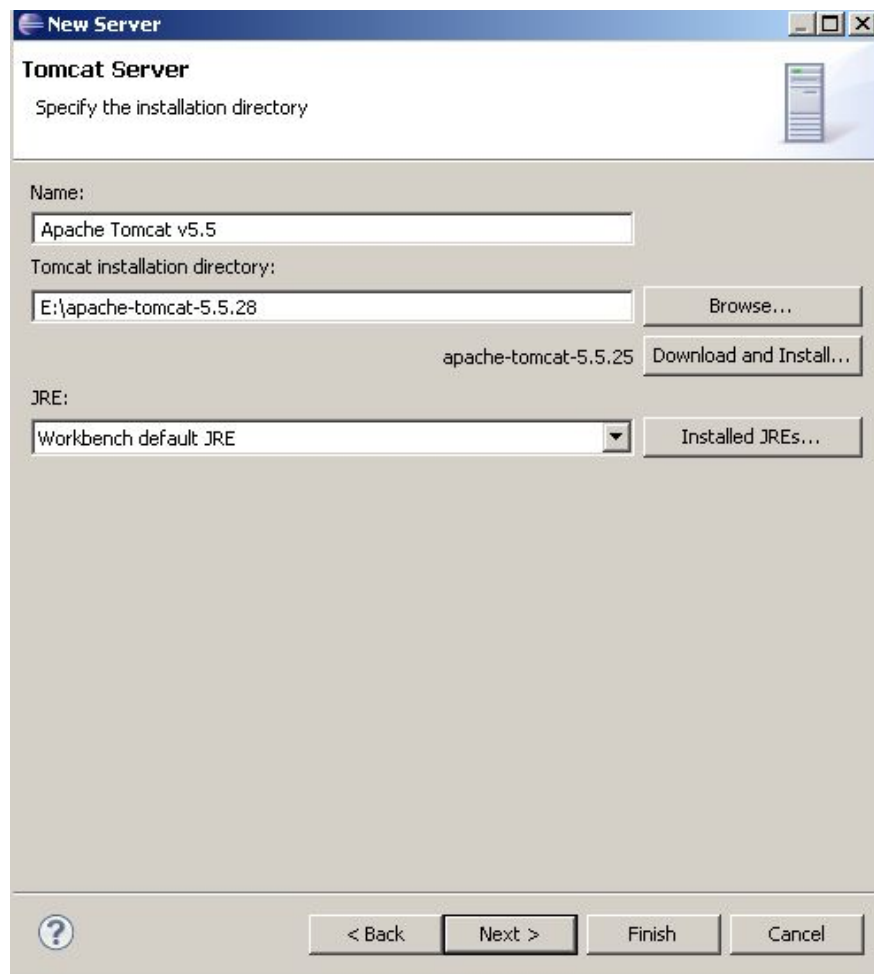
☐ Select Server ☐ Right Click ☐ New ☐ Server



Select Apache ☐ Tomcat v5.5 Server (present tomcat software downloaded by you)



Select Tomcat installation directory ☐ Finish



Now Tomcat Server is available through eclipse

Right Click  Start the Server: The Server Started, Synchronized appear on the screen