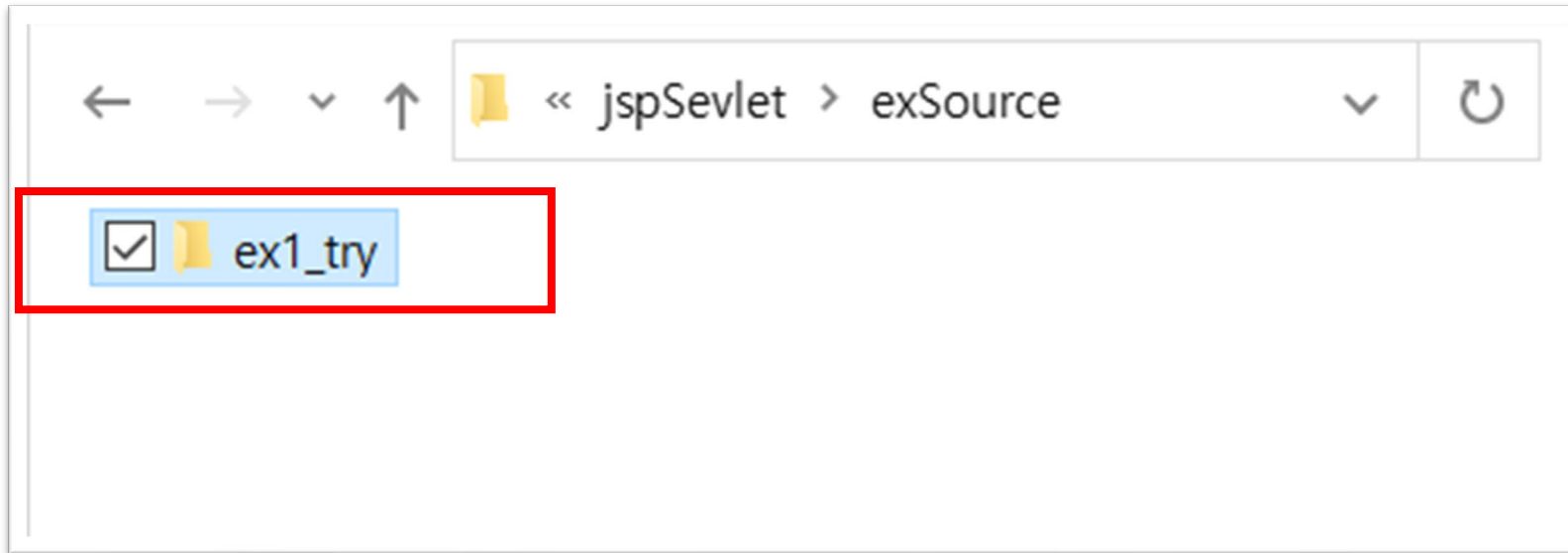


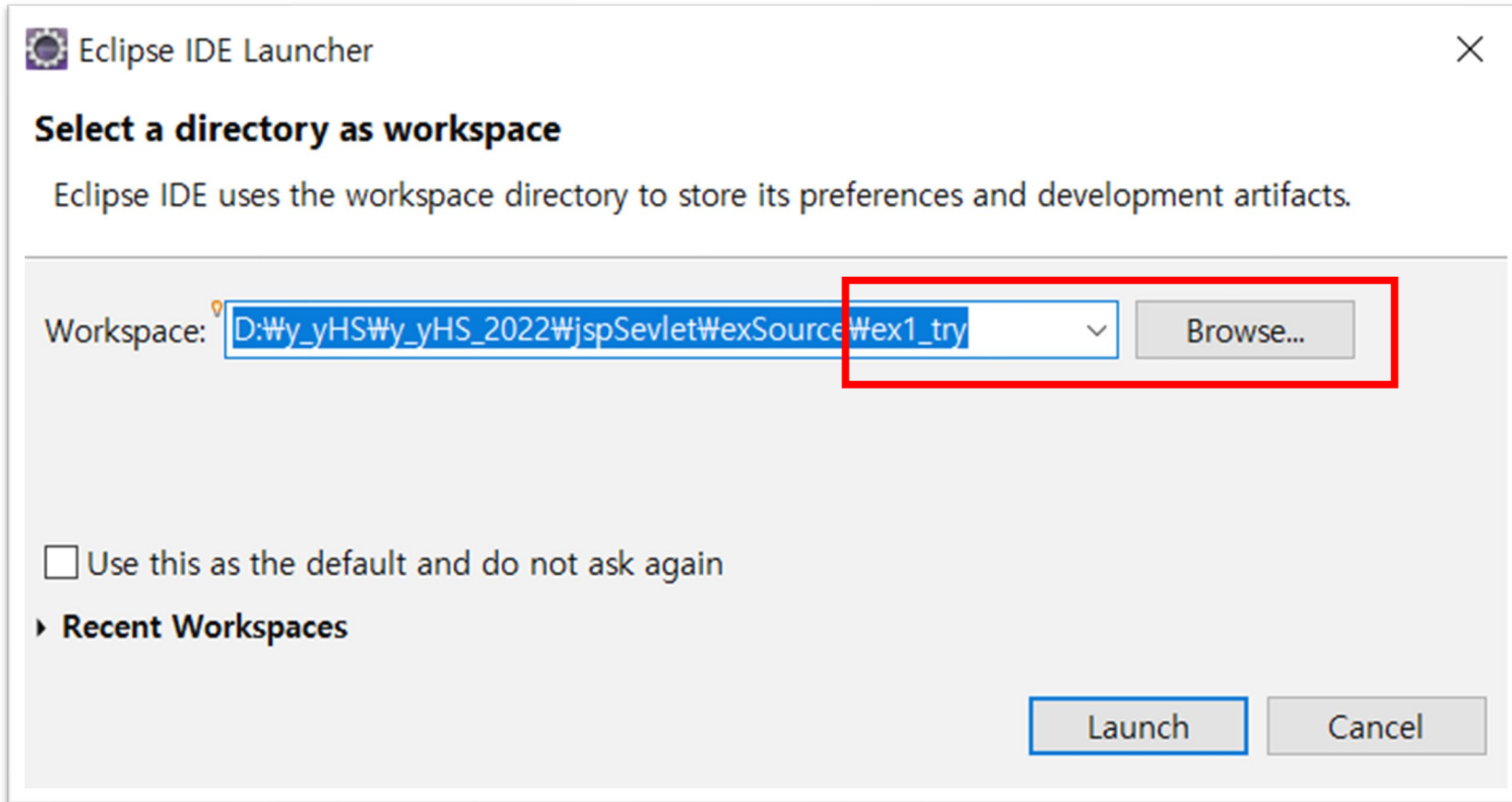
# Try~ Java Web

- A. 프로젝트 폴더 설정
  - B. 이클립스에 WAS설정
    - B\_2. Tomcat 포트번호 변경
  - C. Dynamic프로젝트 시작
    - C\_2. 이클립스 한글설정\_UTF-8
    - C\_3. jsp페이지 작성 및 실행
    - C\_4. sevlet페이지 작성
    - C\_5. xml 매핑과 실행
- 교사 최선경

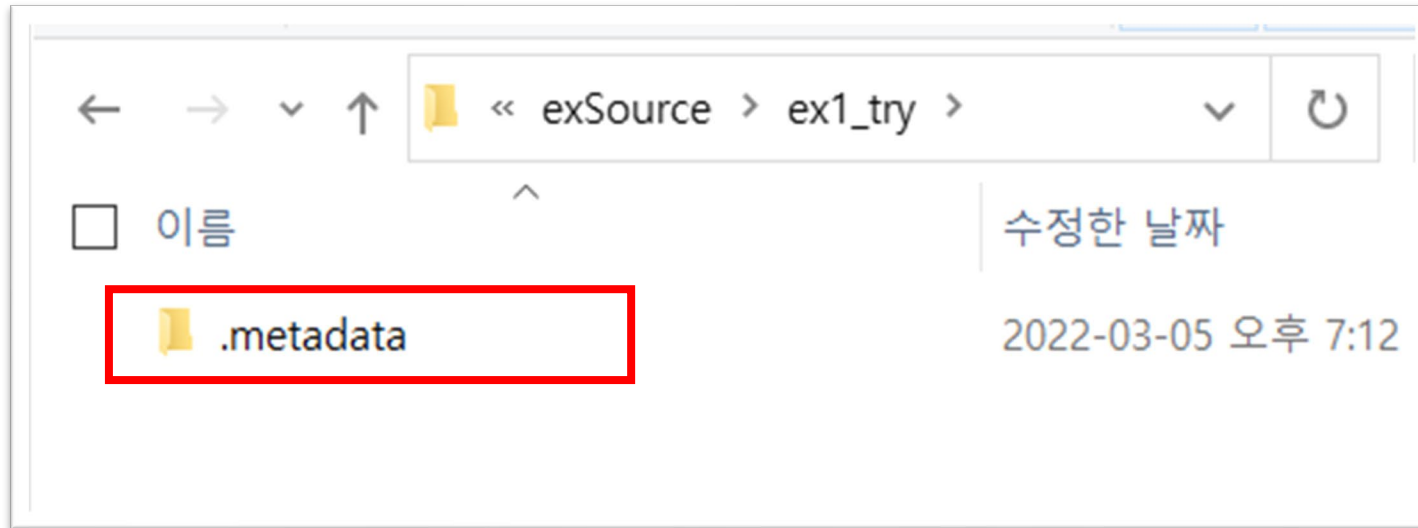
## A. 프로젝트 폴더 생성



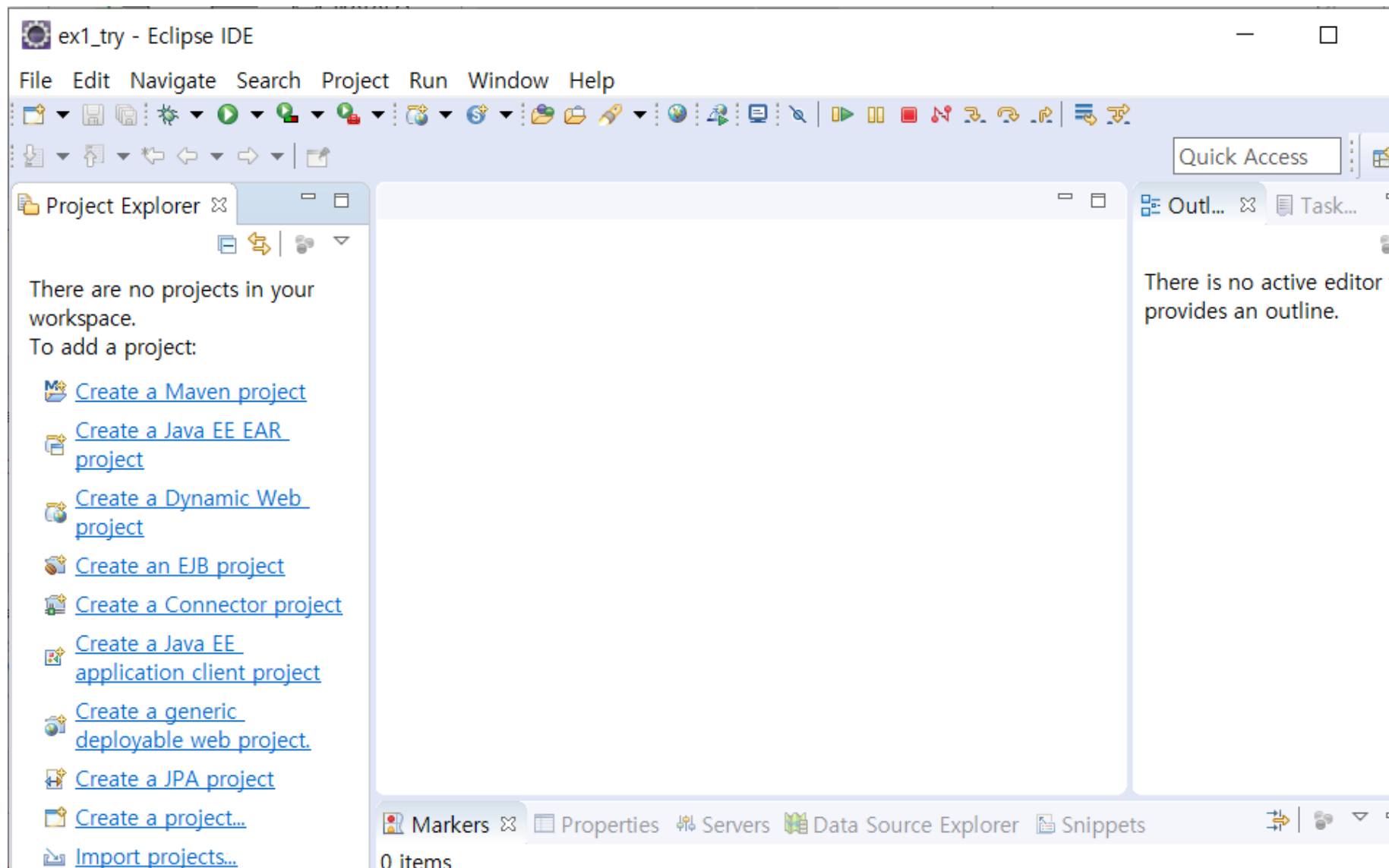
# 경로에 맞춰서 이클립스 실행



프로젝트폴더안의 환경파일을 확인한다.

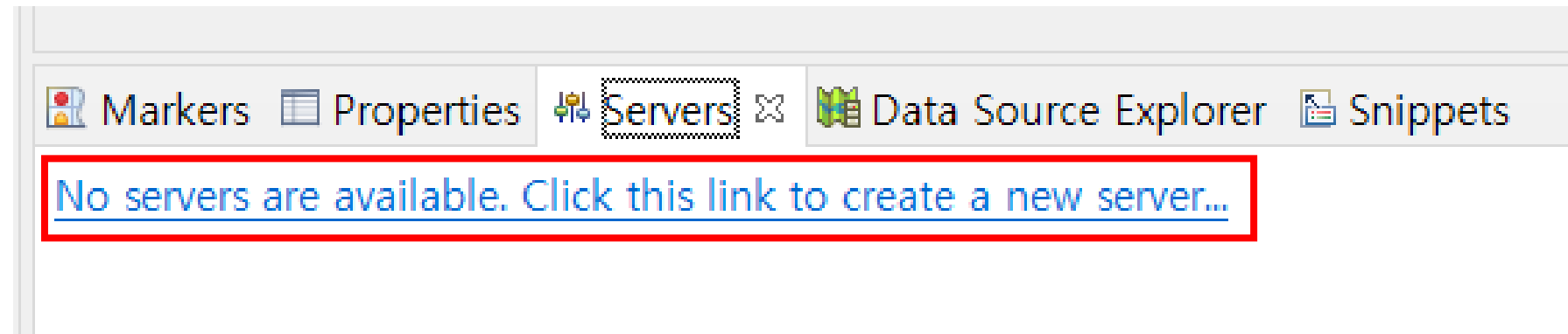


# 이클립스 OPEN.



## B. 자바웹을 개발하기 위한 WAS설정.

1. WebApplicationServer 설치 \_\_ ex. Tomcat9
2. 이클립스에 Tomcat을 서버로 연결



# 이클립스 하단 ServersTomcat v8.5

New Server

Define a New Server

Choose the type of server to create

Select the server type:

type filter text

Tomcat v8.5 Server

Tomcat v9.0 Server

> Basic

Publishes and runs J2EE and Java EE Web projects and server configurations to a local Tomcat server.

Server's host name: localhost

Server name: Tomcat v8.5 Server at localhost

< Back Next > Finish Cancel

New Server

Tomcat Server

Specify the installation directory

Name: Apache Tomcat v8.5

Tomcat installation directory: D:\tools\apache-tomcat-8.5.76-windows-x64\apache-ton

Browse...

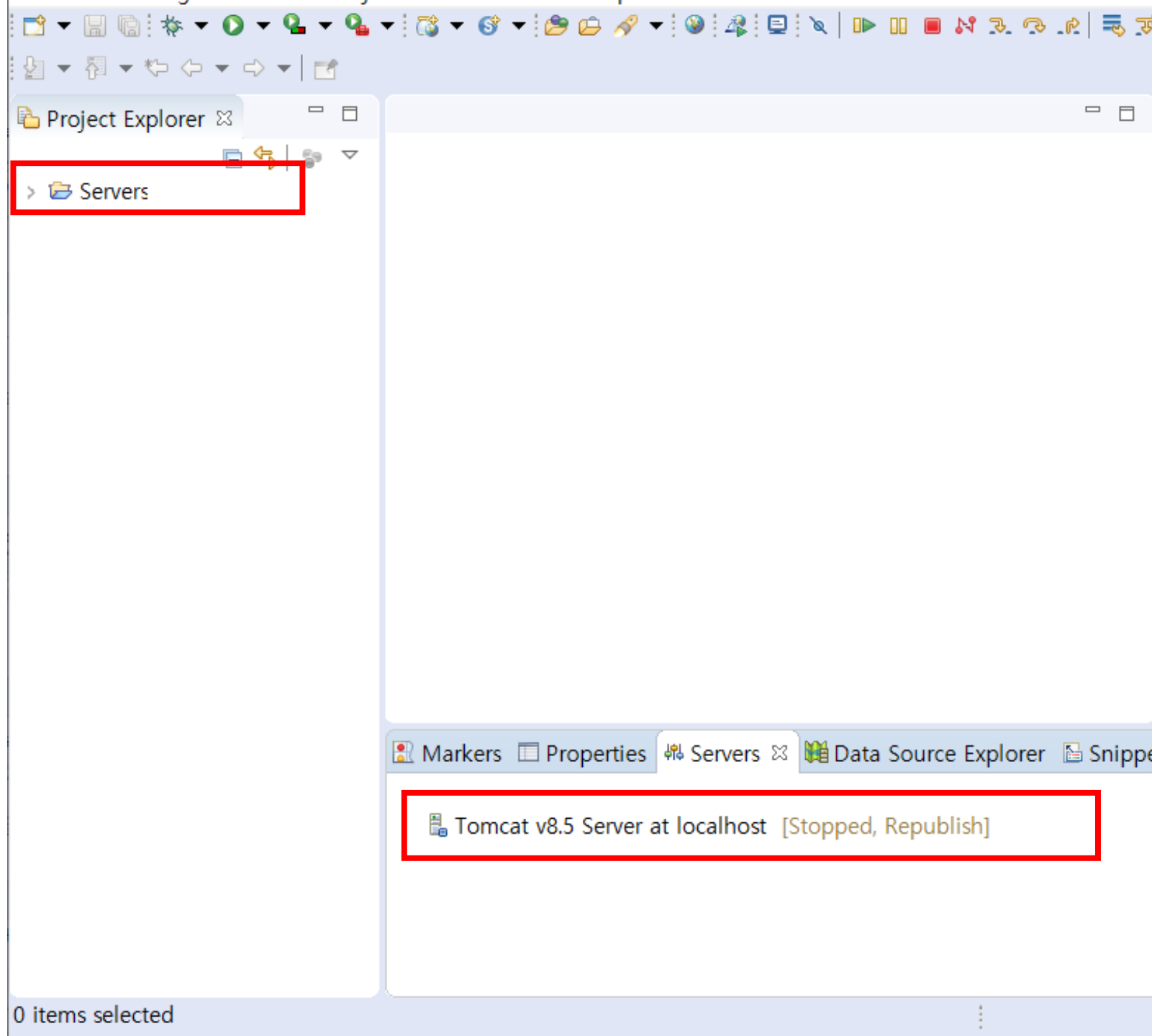
Download and Install...

JRE: Workbench default JRE

Installed JREs...

< Back Next > Finish Cancel

# 이클립스에 서버설정 확인





# B\_2. Tomcat 포트Port 번호변경\_충돌방지

Tomcat v8.5 Server at localhost

Overview

General Information

Specify the host name and other common settings.

Server name:

Tomcat v8.5 Server at localhost

Host name:

localhost

Runtime Environment:

Apache Tomcat v8.5

Configuration path:

/Servers/Tomcat v8.5 Server at localhc

Browse...

[Open launch configuration](#)

Server Locations

Specify the server path (i.e. catalina.base) and deploy path. Server must be published with no modules present to make changes.

☒ Use workspace metadata (does not modify Tomcat installation)

Publishing

Timeouts

Ports

Modify the server ports.

Port Name	Port Number
Tomcat admin port	8005
HTTP/1.1	8090

MIME Mappings

Overview

Modules

Markers

Properties

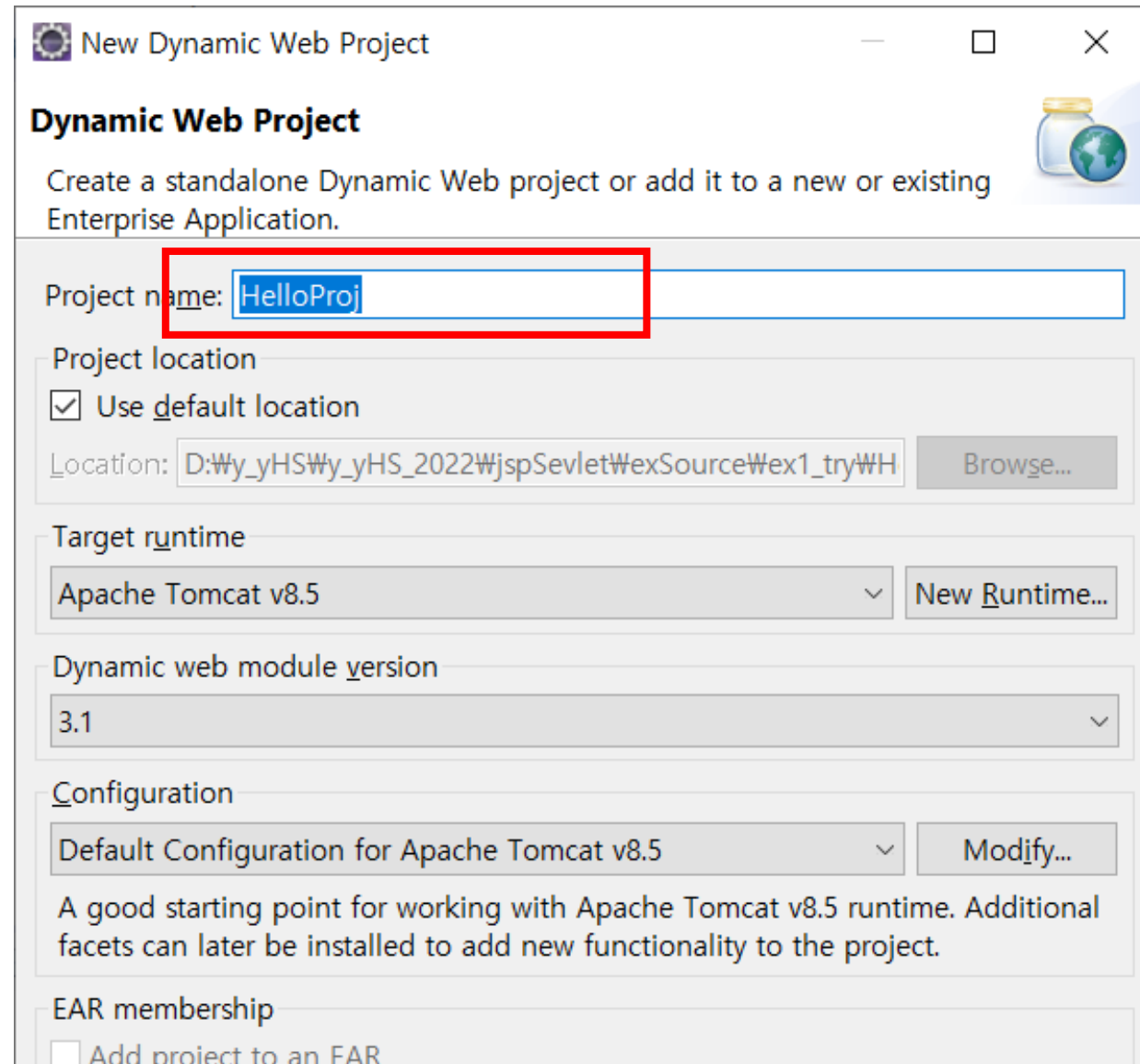
Servers

Data Source Explorer

Snippets

Tomcat v8.5 Server at localhost [Stopped, Republish]

# Dynamic Web Project 생성



New Dynamic Web Project

**Dynamic Web Project**

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

Project name: **HelloProj**

Project location

☒ Use default location

Location: D:\wy\_yHS\wy\_yHS\_2022\jspServlet\wexSource\wex1\_try\WH Browse...

Target runtime

Apache Tomcat v8.5 New Runtime...

Dynamic web module version

3.1

Configuration

Default Configuration for Apache Tomcat v8.5 Modify...

A good starting point for working with Apache Tomcat v8.5 runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

☐ Add project to an EAR

# Next버튼-> Web Module에서 체크

New Dynamic Web Project

**Dynamic Web Project**

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

Project name: HelloProj

Project location

☒ Use default location

Location: D:\wy\_yHS\wy\_yHS\_2022\WjspServlet\WexSource\Wex1\_tryWH Browse...

Target runtime

Apache Tomcat v8.5 New Runtime...

Dynamic web module version

3.1

Configuration

Default Configuration for Apache Tomcat v8.5 Modify...

A good starting point for working with Apache Tomcat v8.5 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

New Dynamic Web Project

**Web Module**

Configure web module settings.

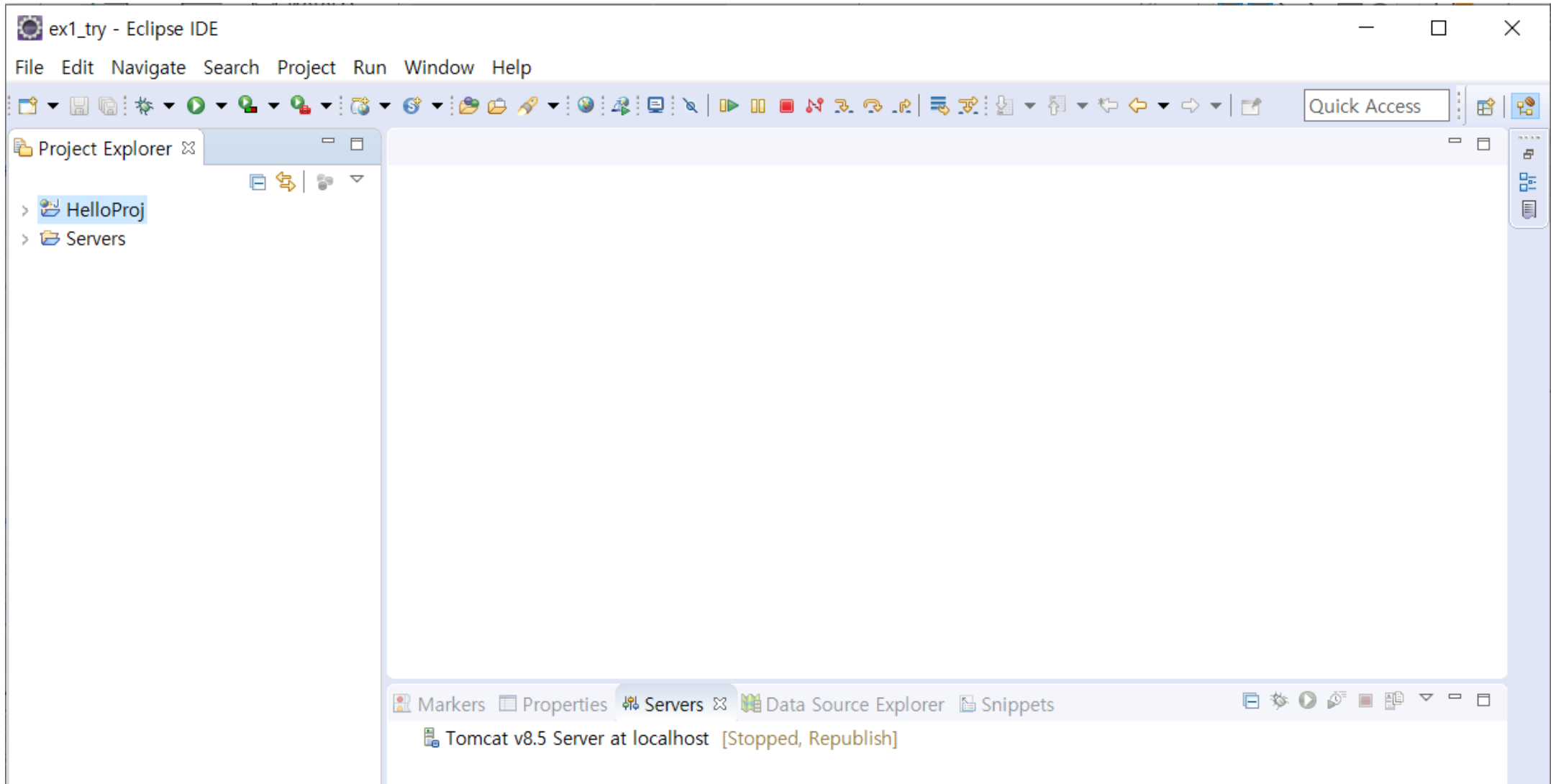
Context root: HelloProj

Content directory: WebContent

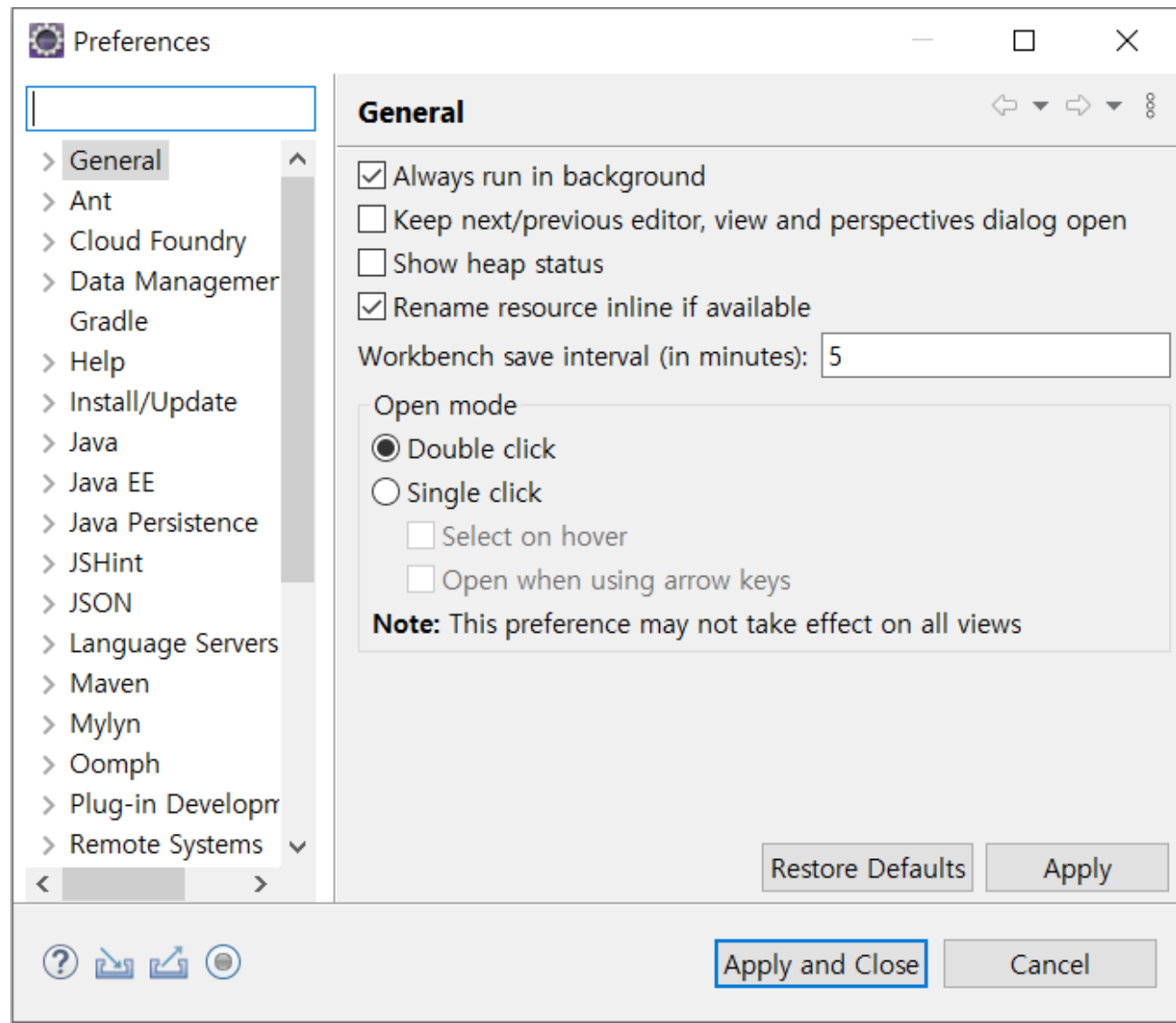
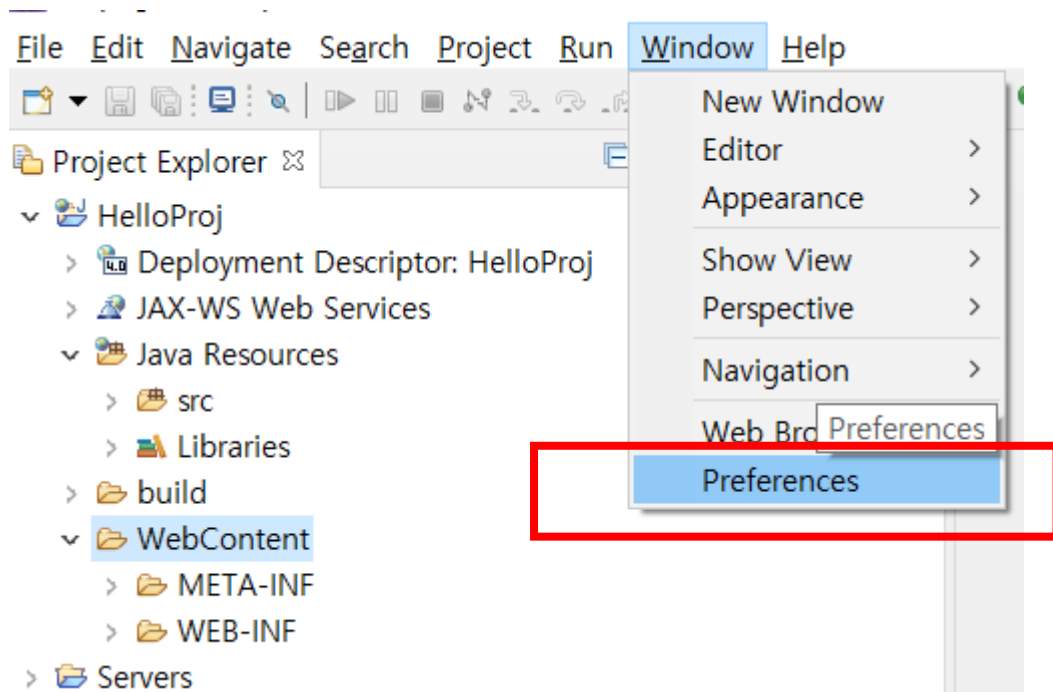
☒ Generate web.xml deployment descriptor

Xml 환경파일을 자동으로 만들어줌

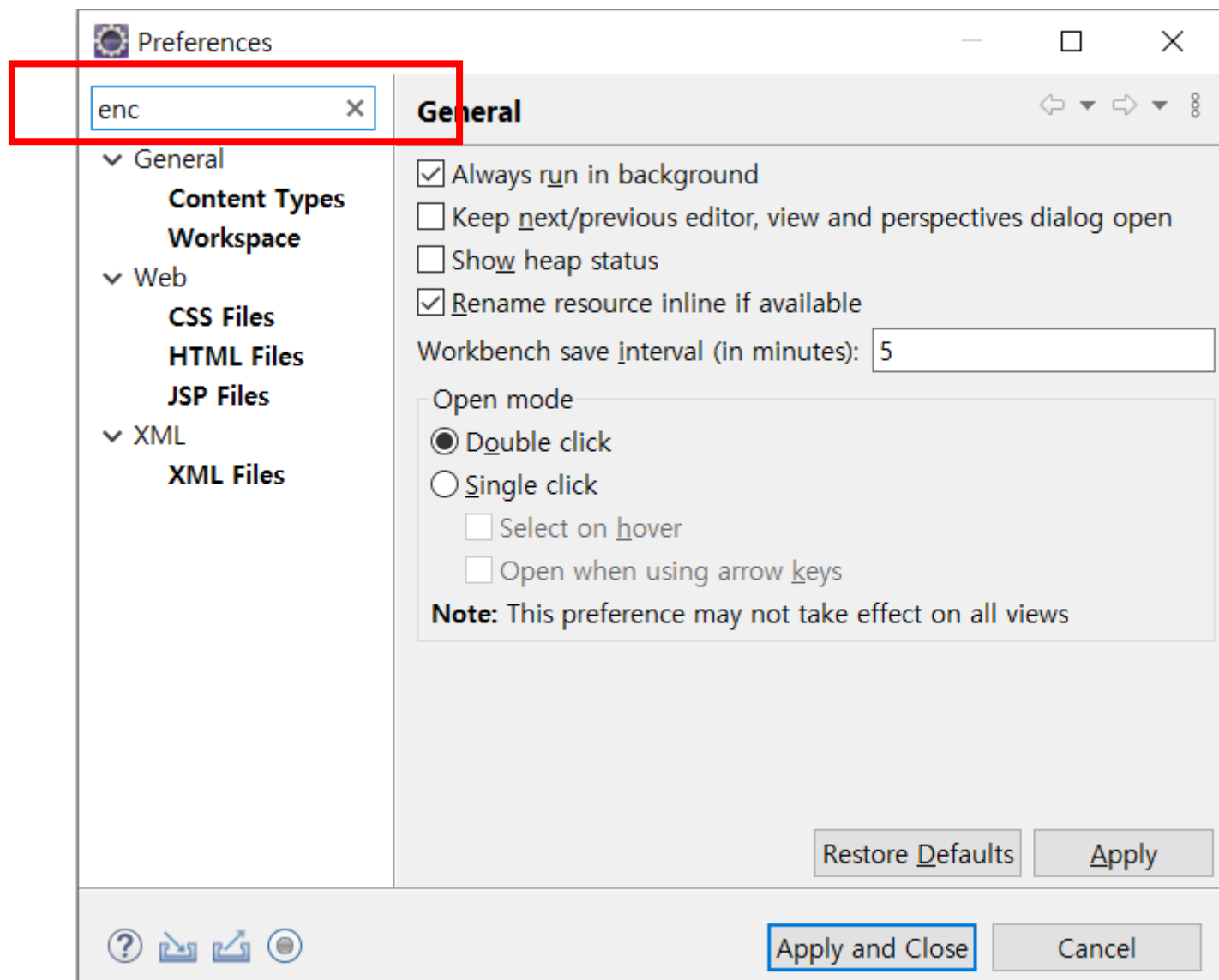
# C. Dynamic 프로젝트 시작.



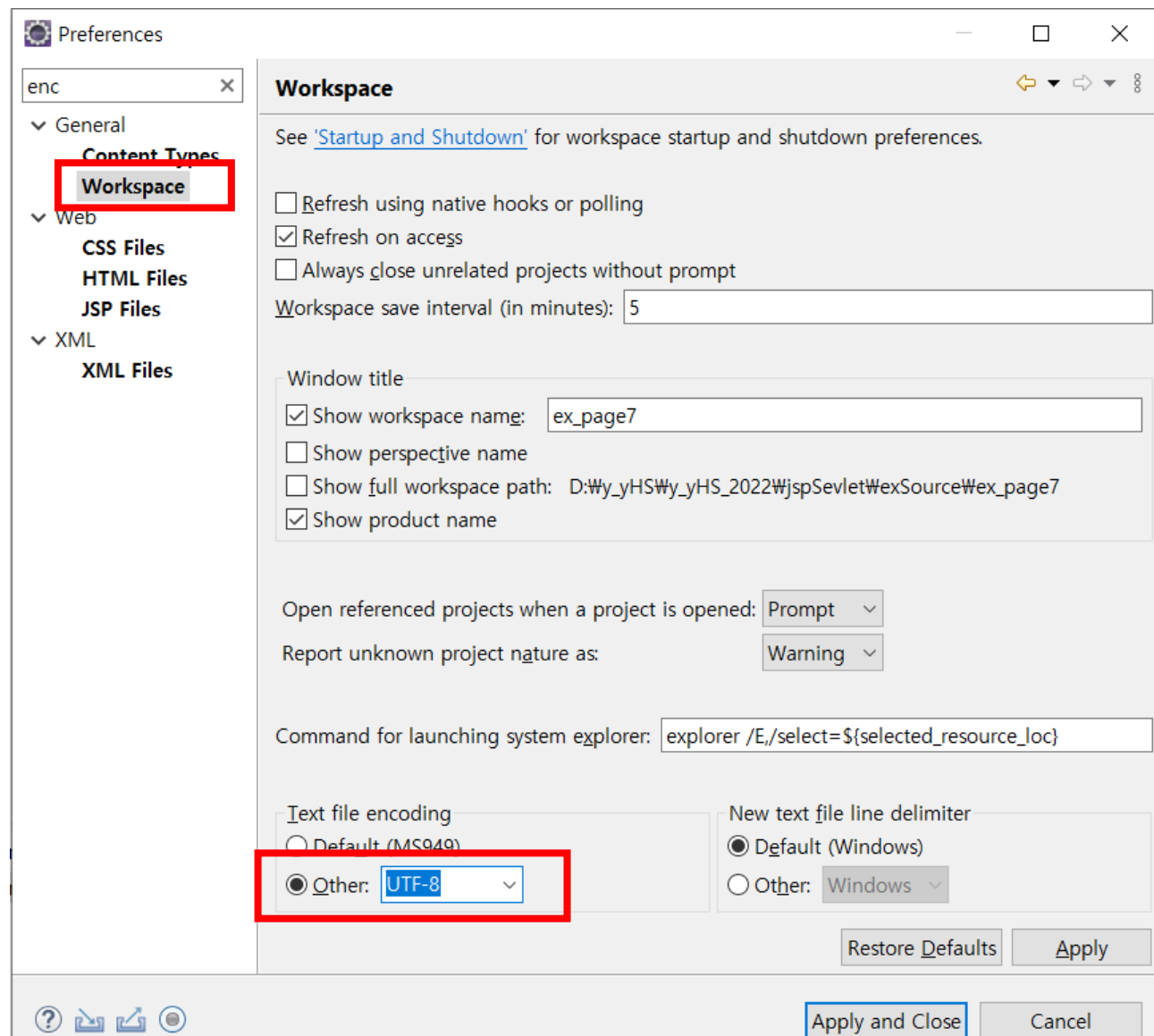
## C\_2. 이클립스 한글설정



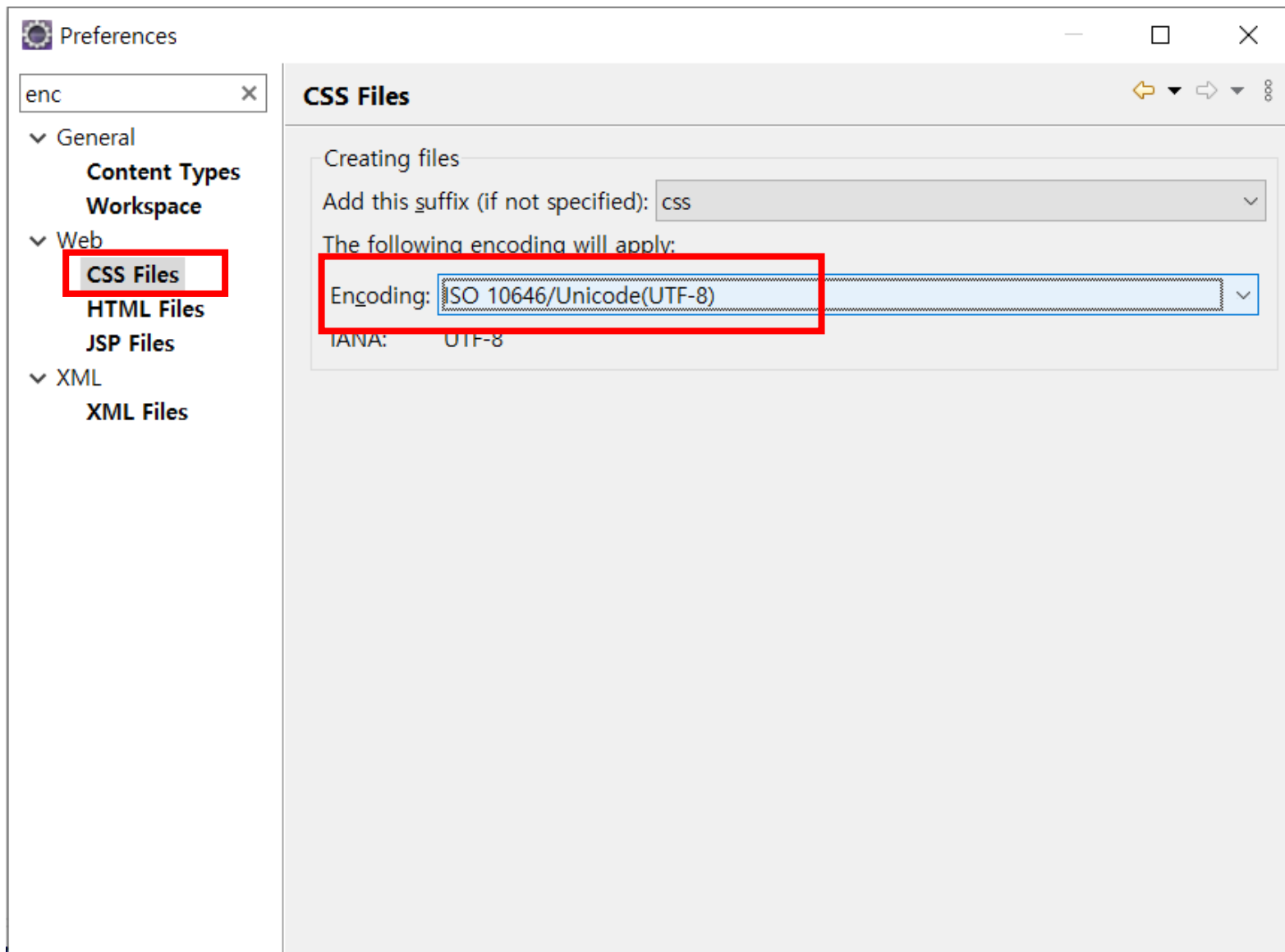
# 검색란에 enc 입력



# 코딩영역 한글깨짐방지.

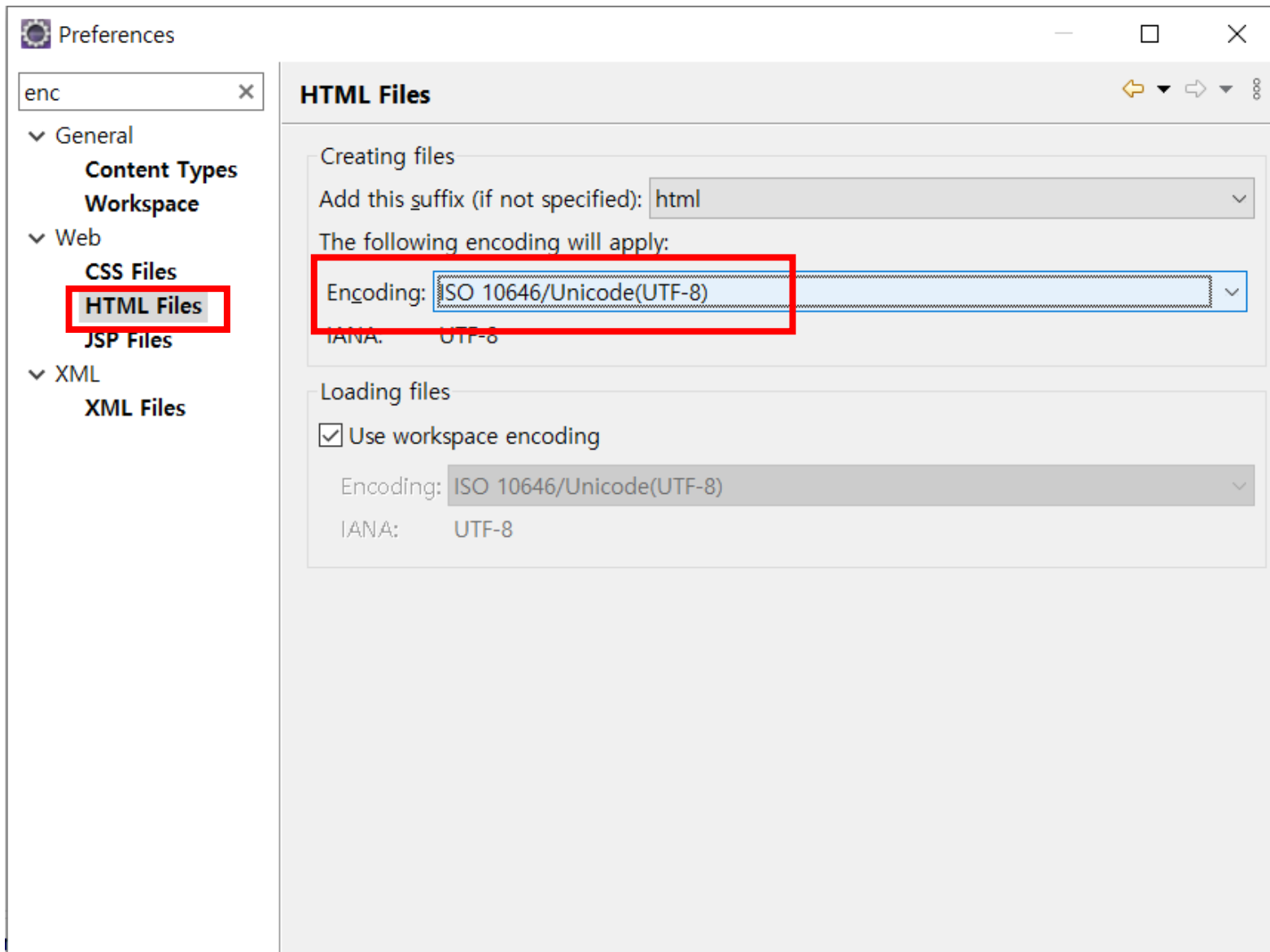


# 스타일시트 한글깨짐방지.

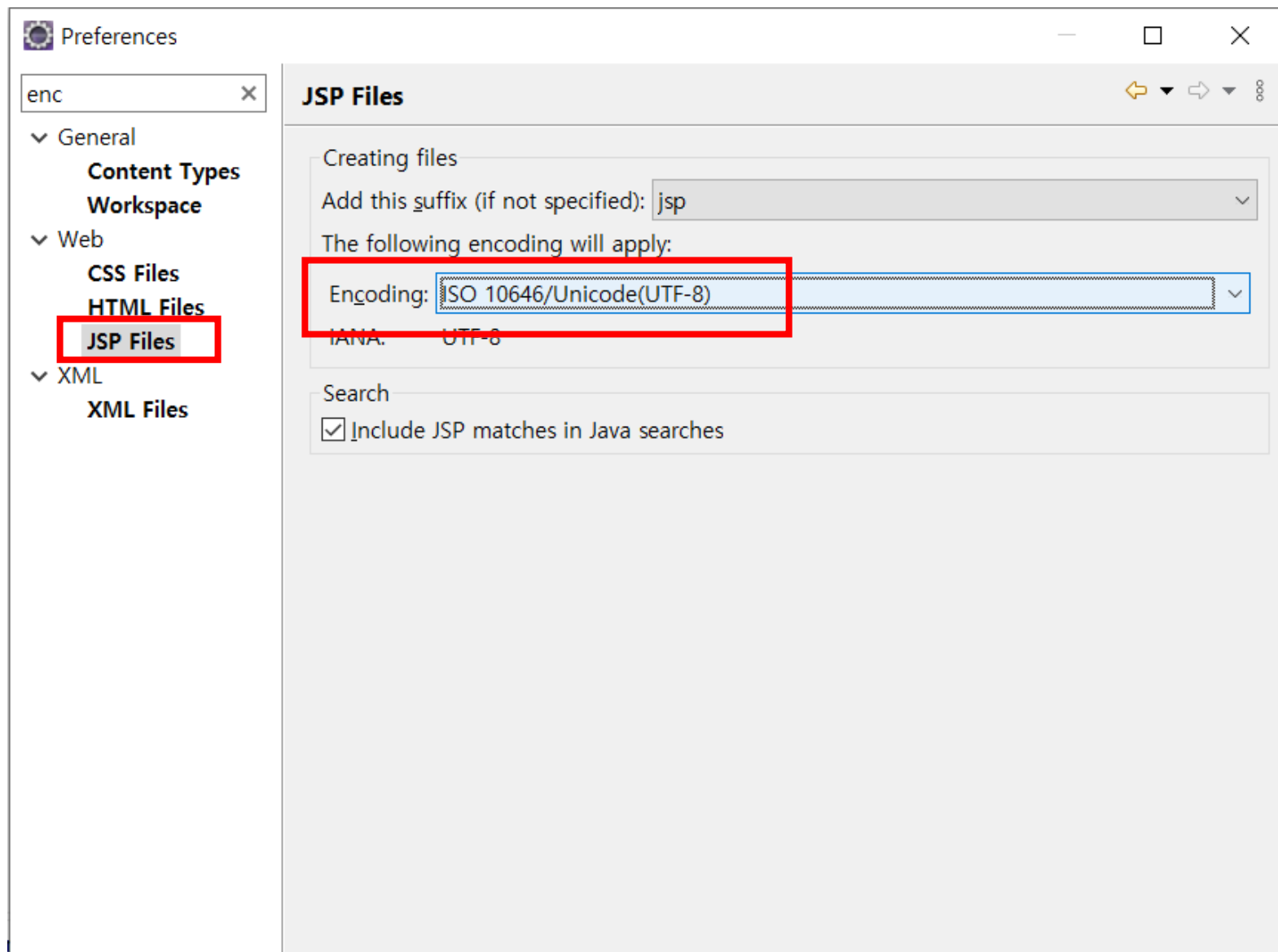




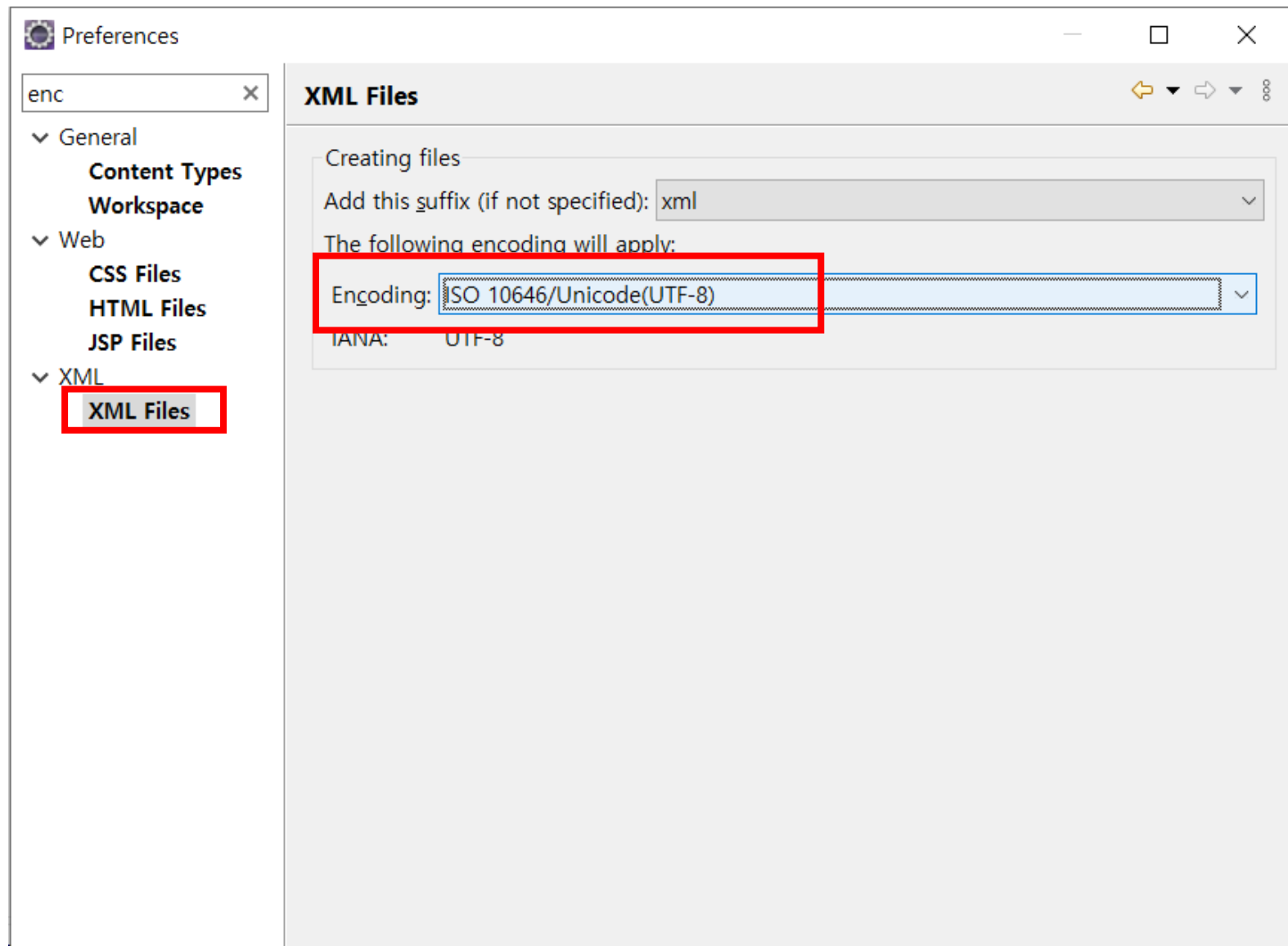
# html파일 한글깨짐방지.



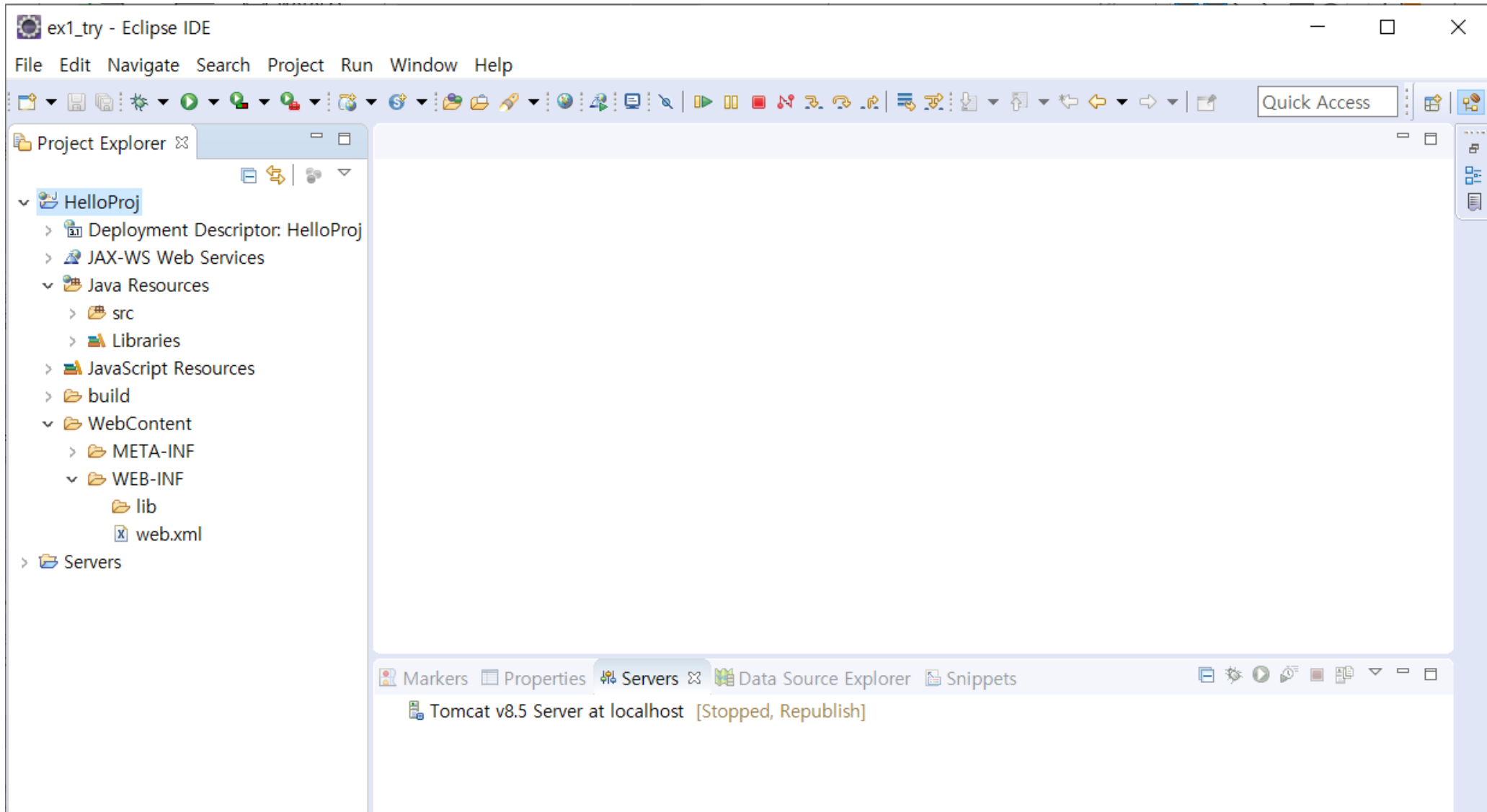
# Jsp파일 한글깨짐방지



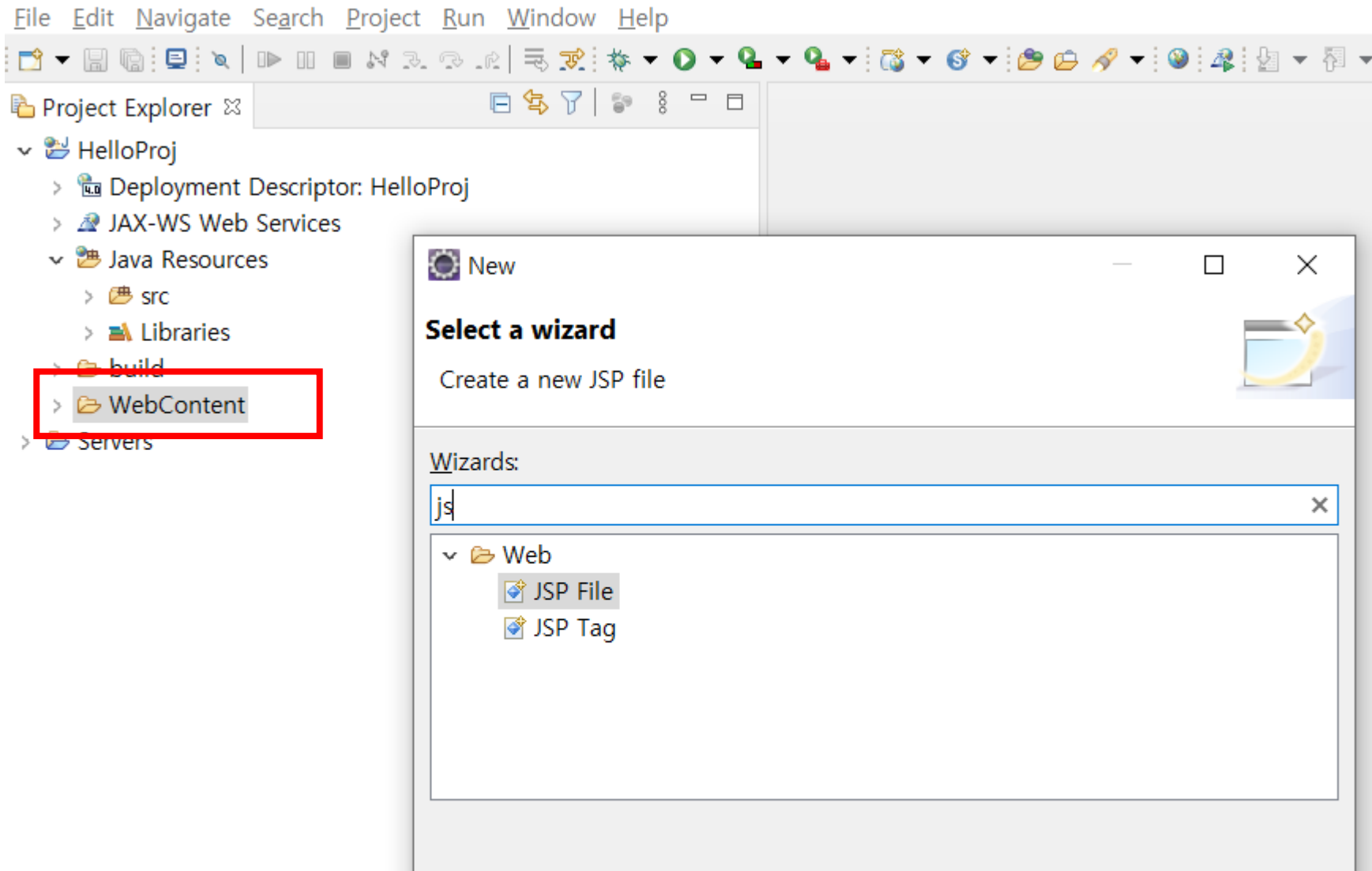
# xml파일 한글깨짐 방지



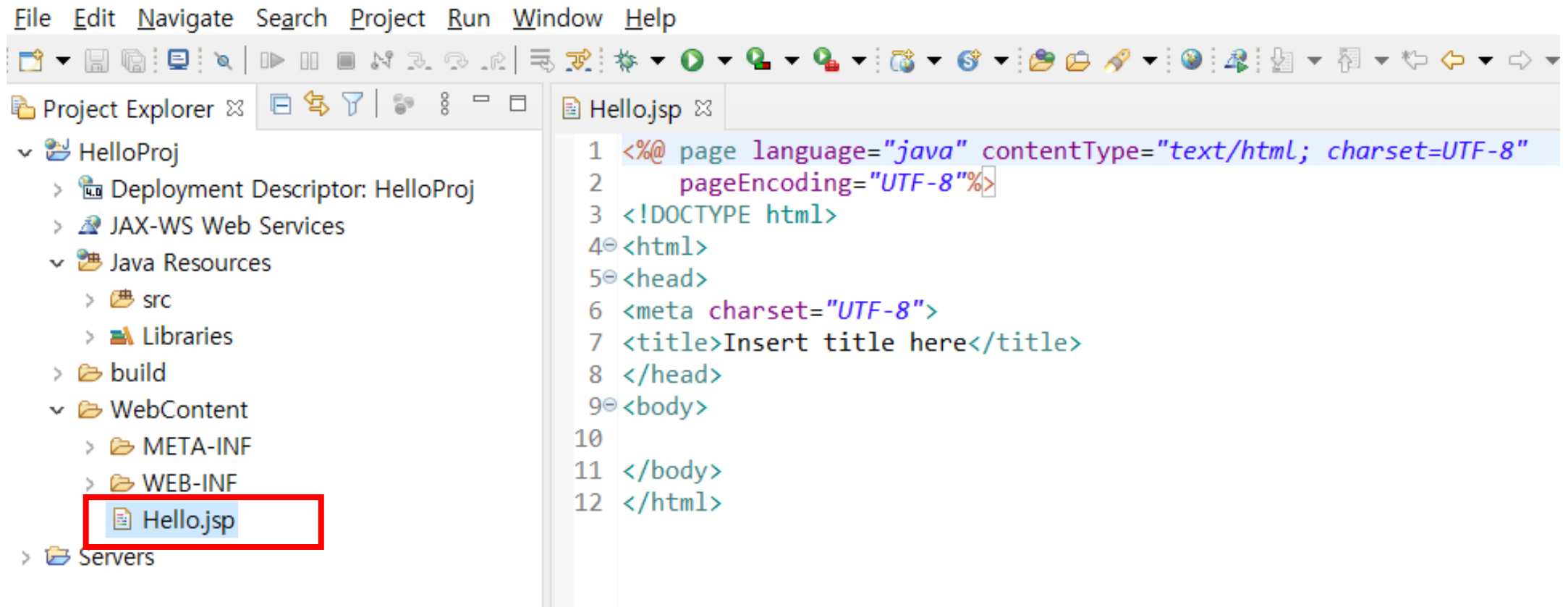
# C. Dynamic 프로젝트 작성 시작



## C\_3. WebContent에 hello.jsp 생성

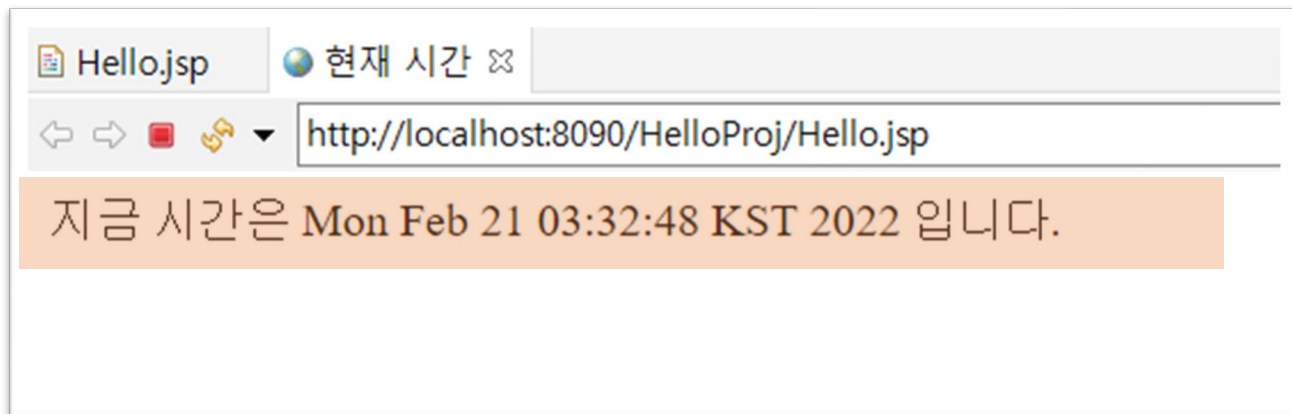


# Hello.jsp



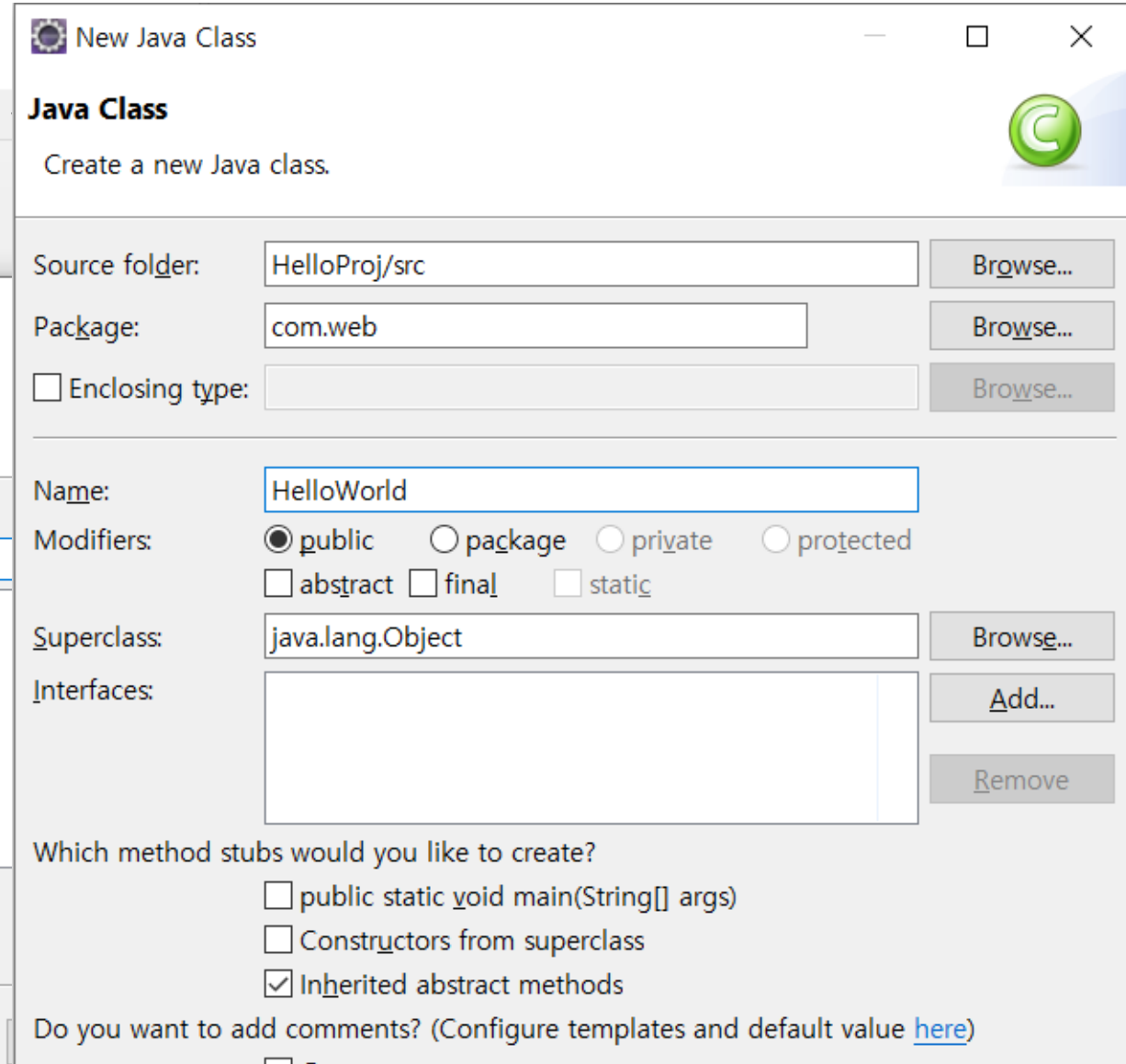
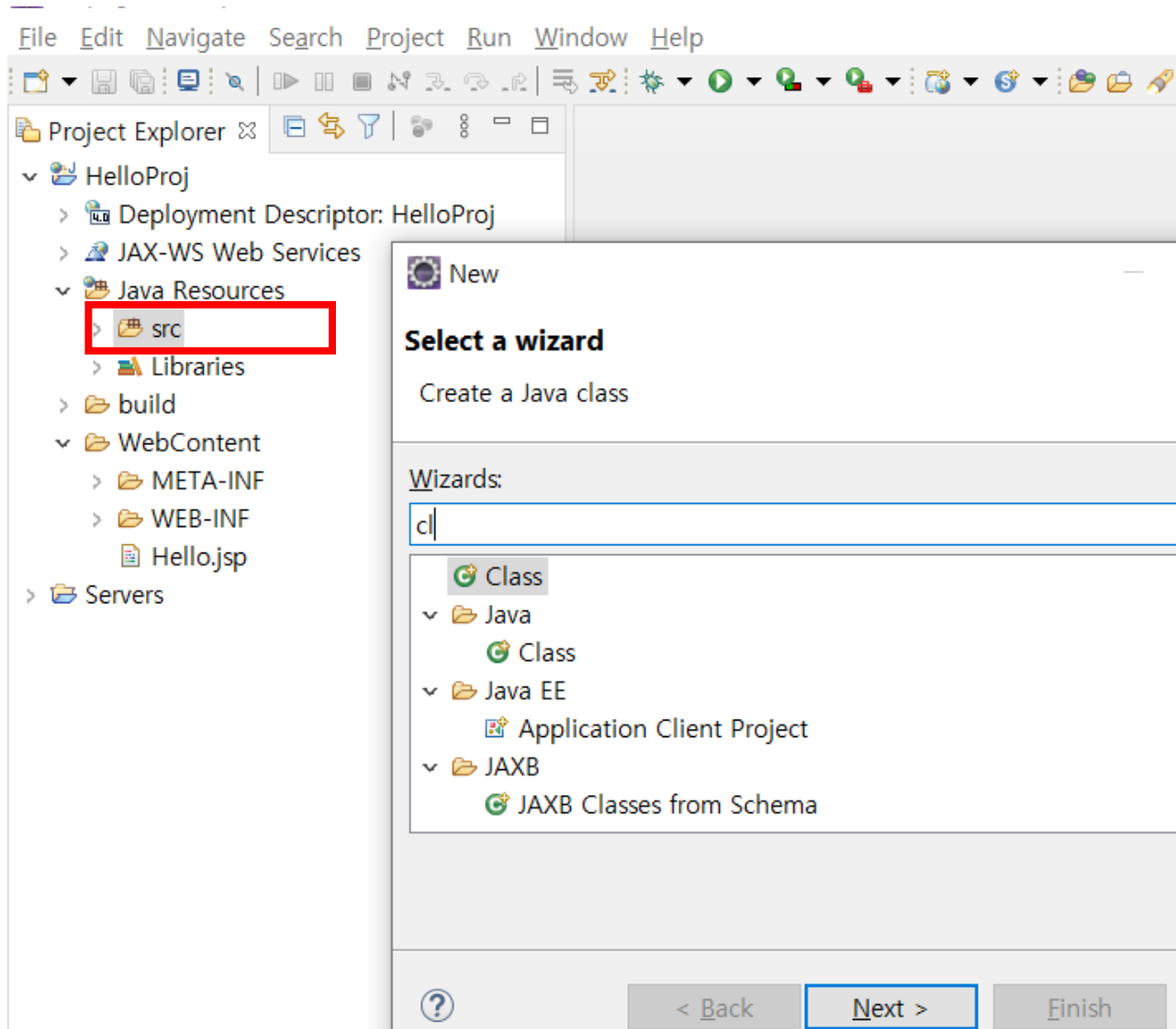
# Hello.jsp

## 작성 및 실행



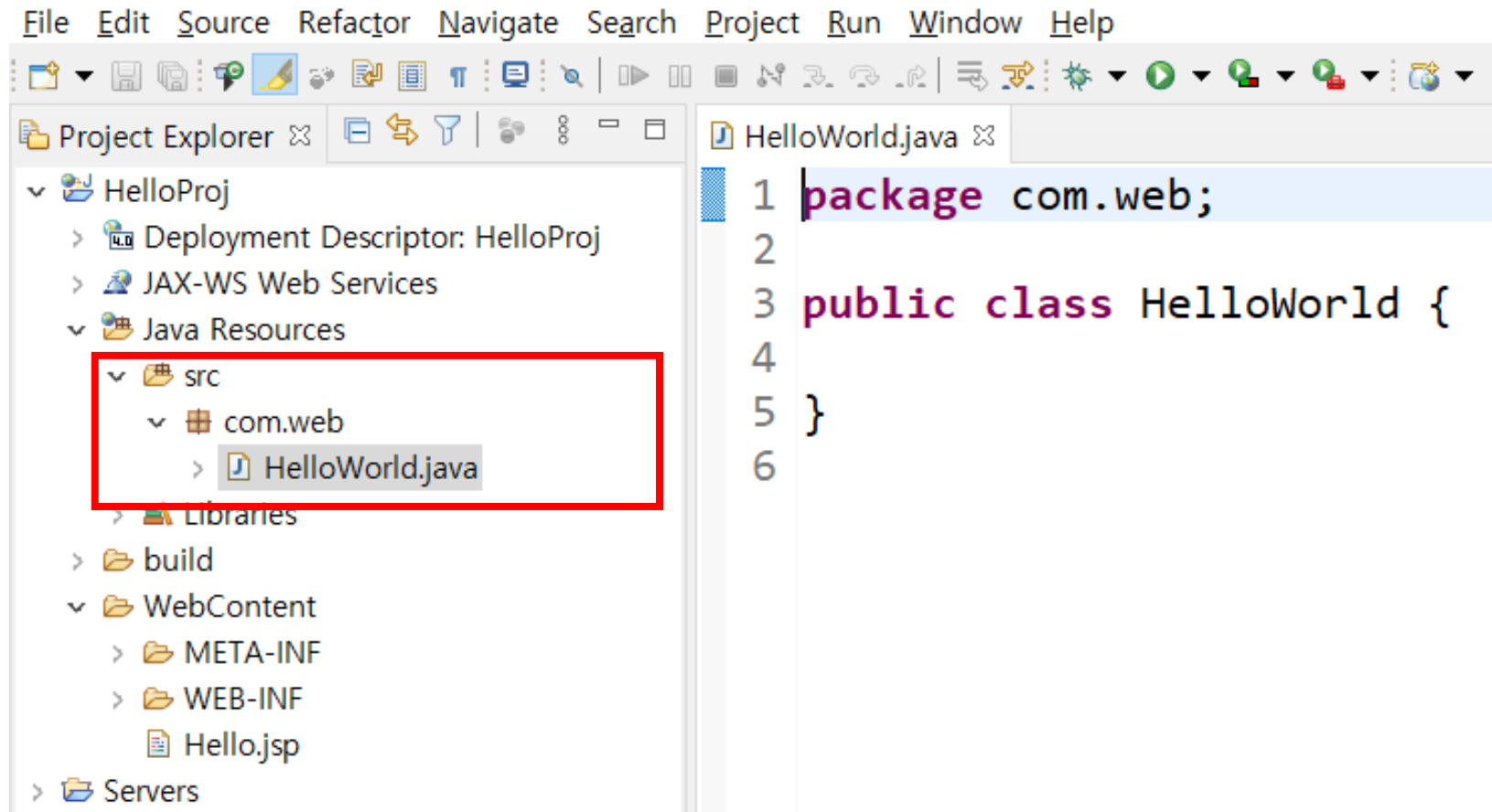
```
Hello.jsp
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="UTF-8">
7 <title>현재 시간</title>
8 </head>
9 <body>
10  지금 시간은 <%= new java.util.Date() %> 입니다.
11 </body>
12 </html>
```

# C\_4. servlet 페이지 작성





# HelloWorld.java



File Edit Source Refactor Navigate Search Project Run Window Help



Project Explorer

- ▼ HelloProj
  - > Deployment Descriptor: HelloProj
  - > JAX-WS Web Services
  - ▼ Java Resources
    - ▼ src
      - ▼ com.web
        - > HelloWorld.java
    - > Libraries
    - > build
  - ▼ WebContent
    - > META-INF
    - > WEB-INF
      - Hello.jsp
  - > Servers

HelloWorld.java

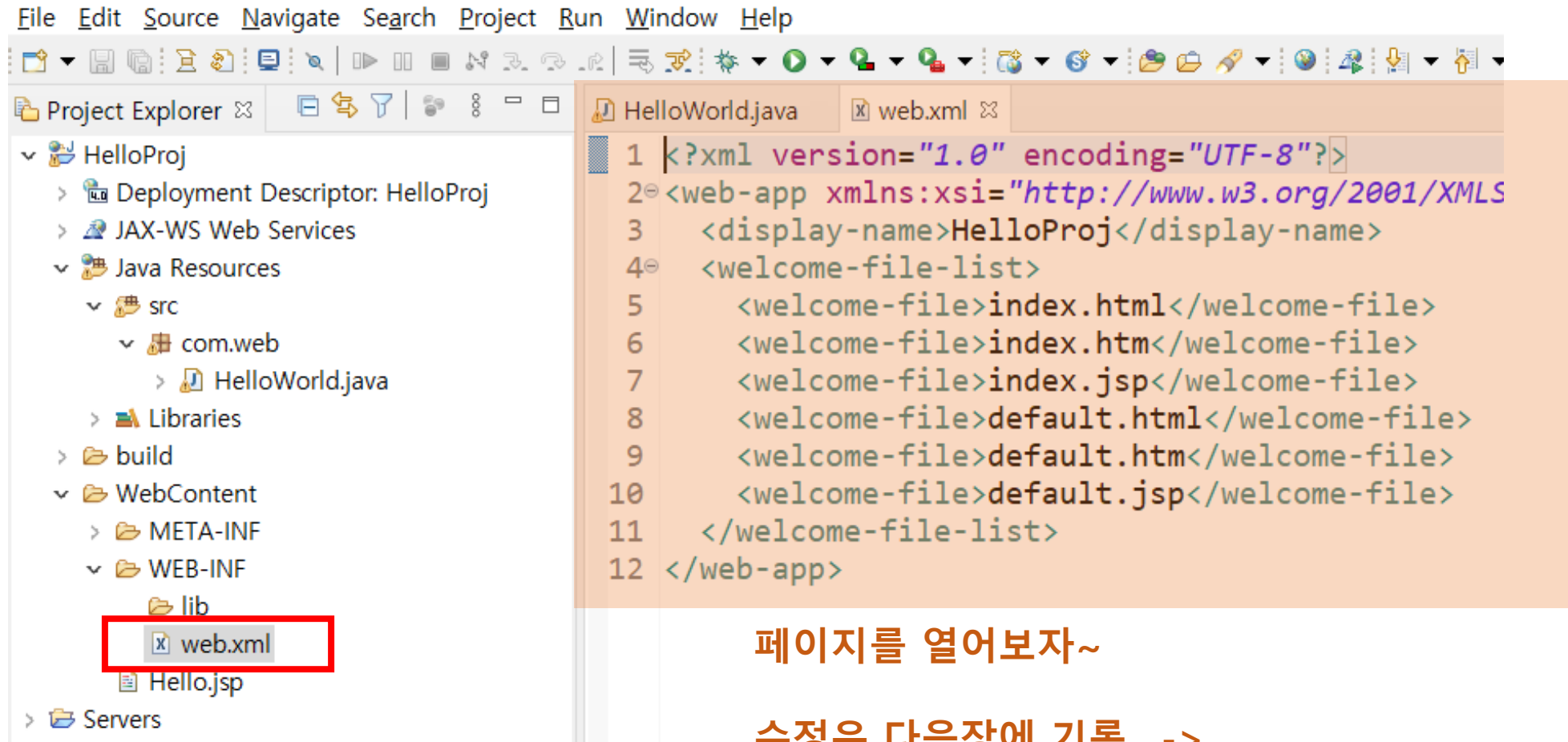
```
1 package com.web;
2
3 import java.io.IOException;
4 import java.io.PrintWriter;
5
6 import javax.servlet.ServletException;
7 import javax.servlet.http.HttpServlet;
8 import javax.servlet.http.HttpServletRequest;
9 import javax.servlet.http.HttpServletResponse;
10
11 public class HelloWorld extends HttpServlet {
12
13     @Override
14     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
15
16         resp.setContentType("text/html");
17         PrintWriter out = resp.getWriter();
18         out.println("<html>");
19         out.println("<body>");
20         out.println("Hello Java Server Page ~ !!!");
21         out.println("자바 웹페이지 안녕~ !!!");
22         out.println("</body></html>");
23         out.close();
24     }
25 }
26 }
```

# HelloWorld 서블릿페이지 작성

# HelloWorld 서블릿페이지 실행



# C\_4. 서블릿 페이지의 실행을 설정



The screenshot shows an IDE interface with the following components:

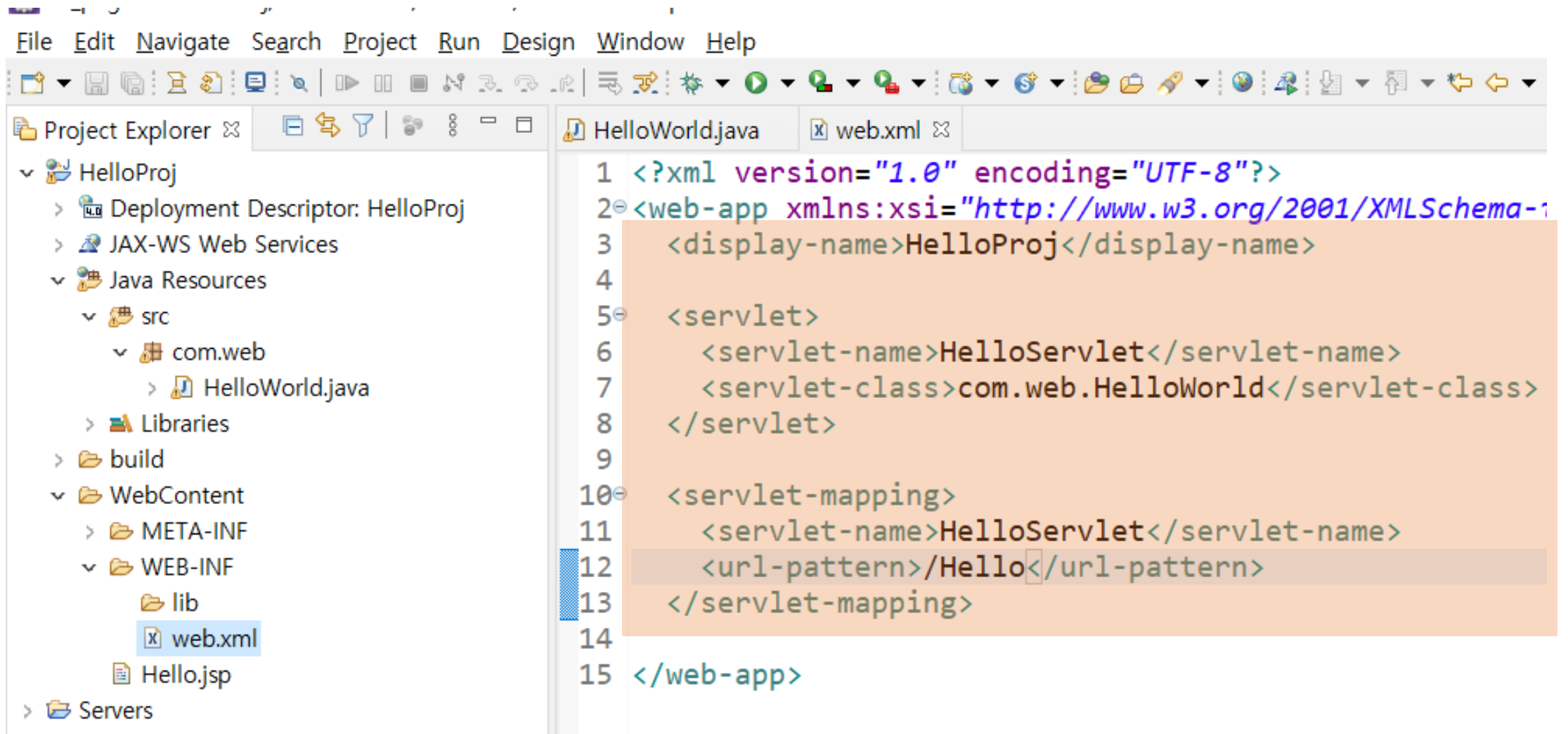
- Project Explorer:** Displays the project structure for 'HelloProj'. The 'web.xml' file is highlighted with a red rectangle under the 'WEB-INF' directory.
- Code Editor:** Shows the content of 'web.xml' with the following XML code:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema
3     <display-name>HelloProj</display-name>
4     <welcome-file-list>
5         <welcome-file>index.html</welcome-file>
6         <welcome-file>index.htm</welcome-file>
7         <welcome-file>index.jsp</welcome-file>
8         <welcome-file>default.html</welcome-file>
9         <welcome-file>default.htm</welcome-file>
10        <welcome-file>default.jsp</welcome-file>
11    </welcome-file-list>
12 </web-app>
```

페이지를 열어보자~

수정은 다음장에 기록...->

# Web.xml 수정하기



```
1 package com.web;
2
3 import java.io.IOException;
4
10
11 public class HelloWorld extends HttpServlet {
12
13     @Override
14     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
15
16         //resp.setContentType("text/html;charset=UTF-8");
17         resp.setContentType("text/html");
18         PrintWriter out = resp.getWriter();
19         out.println("<html>");
20         out.println("<body>");
21         out.println("Hello Java Server Page ~ !!!");
22         out.println("자바 웹페이지 안녕~ !!!");
23         out.println("</body></html>");
24         out.close();
25     }
26
27 }
28
```

# 서블릿 작성 및 실행 1

http://localhost:8090/HelloProj/Hello

http://localhost:8090/HelloProj/Hello

Hello Java Server Page ~ !!! ?? ???? ??~ !!!

```
HelloWorld.java
1 package com.web;
2
3 import java.io.IOException;
4
10
11 public class HelloWorld extends HttpServlet {
12
13     @Override
14     protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException {
15
16         resp.setContentType("text/html; charset=UTF-8");
17         //resp.setContentType("text/html");
18         PrintWriter out = resp.getWriter();
19         out.println("<html>");
20         out.println("<body>");
21         out.println("Hello Java Server Page ~ !!!");
22         out.println("자바 웹페이지 안녕~ !!!");
23         out.println("</body></html>");
24         out.close();
25     }
26
27 }
28
```

## 서블릿 작성 및 실행 2

