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RA1711003010761
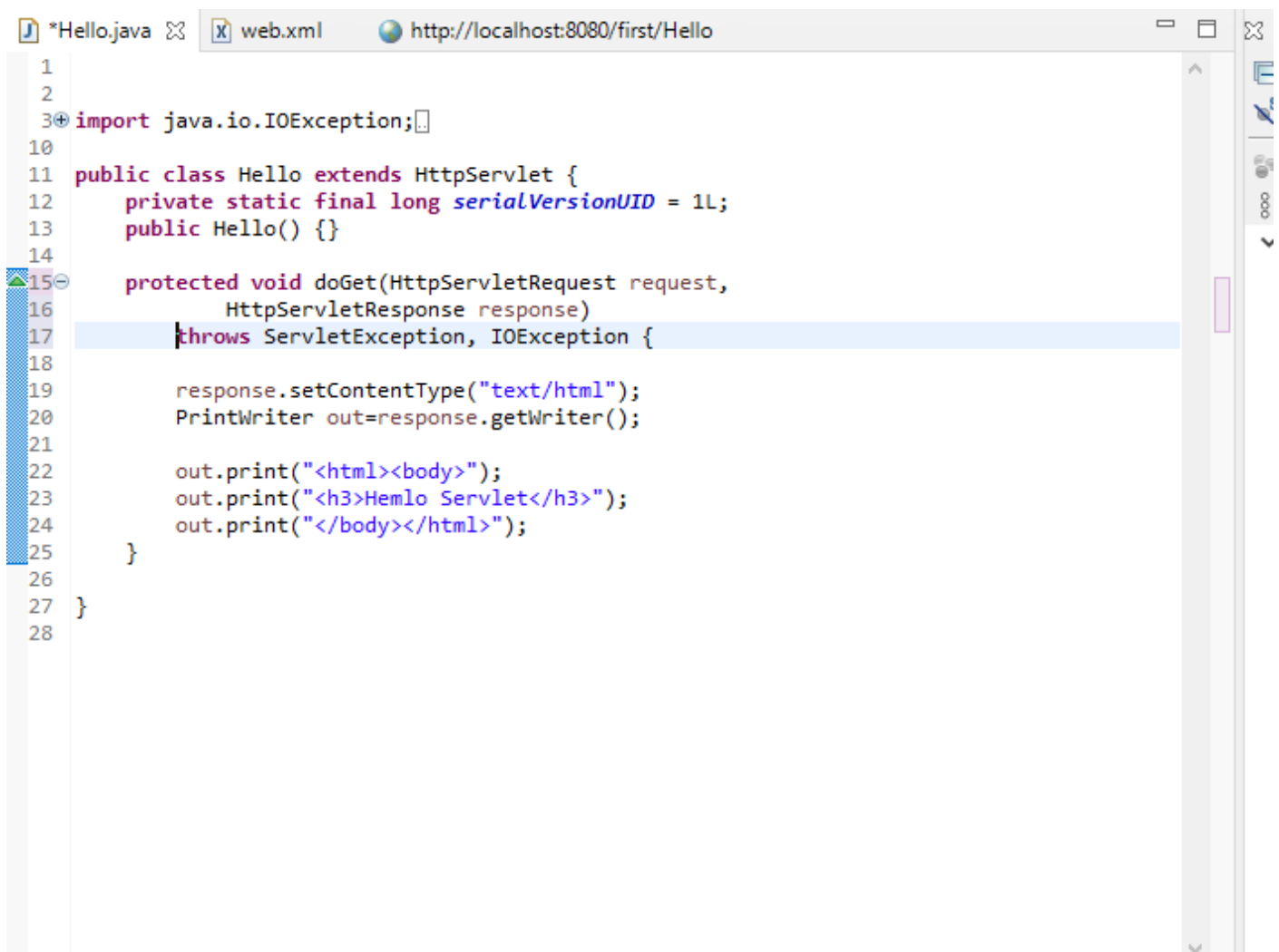**Week-7** : Simple applications using **Servlet program**

Description:

Servlet technology is used to create a web application (resides at server side and generates a dynamic web page).

Servlet technology is robust and scalable because of java language. Before Servlet, CGI (Common Gateway Interface) scripting language was common as a server-side programming language. However, there were many disadvantages to this technology. We have discussed these disadvantages below.

There are many interfaces and classes in the Servlet API such as Servlet, GenericServlet, HttpServlet, ServletRequest, ServletResponse, etc.
Code:

Creating a simple Servlet XML Doc inside a Java IDE after creation of Servlet along with server running. Like Tomcat or Apache.

```
J *Hello.java    X web.xml    http://localhost:8080/first/Hello

1
2
3⊕ import java.io.IOException;

10
11 public class Hello extends HttpServlet {
12     private static final long serialVersionUID = 1L;
13     public Hello() {}
14
15⊖     protected void doGet(HttpServletRequest request,
16             HttpServletResponse response)
17         throws ServletException, IOException {
18
19         response.setContentType("text/html");
20         PrintWriter out=response.getWriter();
21
22         out.print("<html><body>");
23         out.print("<h3>Hemlo Servlet</h3>");
24         out.print("</body></html>");
25     }
26
27 }
28
```

After running the server and running the servlet on server the XML pages set the server parameters as such :

Node	Content
*Hello.java x web.xml http://localhost:8080/first/Hello	
?=? xml	version="1.0" encoding="UTF-8"
v e web-app	(((description*, display-name*, icon*))	distributable	context-param	filt...
@ xmlns:xsi	http://www.w3.org/2001/XMLSchema-instance
@ xmlns	http://java.sun.com/xml/ns/javaee
@ xmlns:web	http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd
@ xsi:schemaLocation	http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/w...
@ id	WebApp_ID
@ version	2.5
e display-name	first
> e welcome-file-list	(welcome-file+)
> e servlet	(((description*, display-name*, icon*)), servlet-name, (servlet-class	jsp-fil...
> e servlet-mapping	(servlet-name, url-pattern+)

Design   Source

Output:

Hemlo Servlet