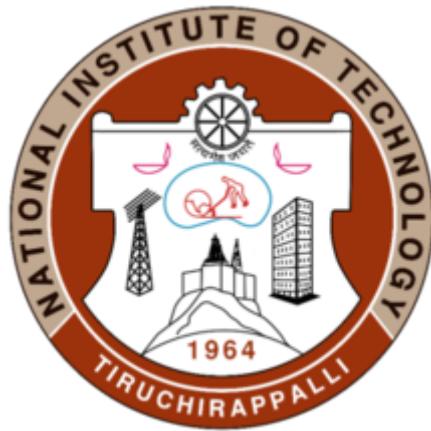


National Institute of Technology, Tiruchirappalli



Department of Computer Applications

Web Technology and its Applications Lab

Lab 6

Submitted to:

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Submitted by:

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205120007

MCA – 2nd Year

1. Sample programs of JSP Scripting elements.

1_script_elements.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Scripting Elements</title>
</head>
<body>
<h1>JSP Scripting Elements:</h1>

<%-- This is a comment --%>
<% out.print("Scriptlet Element in action"); %>

<h2>Expression Element</h2>
Current Time: <%= java.util.Calendar.getInstance().getTime() %>

<h2>Declaration Element</h2>
<%! int min=60; %>
<%= "1 hour is equal to : " + min + " minutes" %>
</body>
</html>
```

The screenshot shows the Eclipse IDE interface with a JSP file named '1.script_elements.jsp' open in the editor. The code demonstrates various JSP scripting elements, including scriptlets, expressions, and declarations. The right panel displays the output of the JSP code in a web browser window titled 'Scripting Elements'. The output includes a heading 'JSP Scripting Elements:', a section for 'Expression Element' showing the current time, and a section for 'Declaration Element' showing a declaration of a variable 'min'.

```
1.script_elements.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1">
7 <title>Scripting Elements</title>
8 </head>
9 <body>
10 <h1>JSP Scripting Elements:</h1>
11 <%-- This is a comment --%>
12 <% out.print("Scriptlet Element in action"); %>
13
14 <h2>Expression Element</h2>
15 Current Time: <%= java.util.Calendar.getInstance().getTime() %>
16
17 <h2>Declaration Element:</h2>
18 <%! int min=60; %>
19 <%= "1 hour is equal to : " + min + " minutes" %>
20
21 </body>
22 </html>
```

2. Sample programs of JSP implicit objects.

(i.) request object:

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Request Object Example</title>
</head>
<body>
<form action="app.jsp">
<input type="text" name="uname"> <input type="submit"
value="Submit">
</form>
</body>
</html>
```

app.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>jsp file for index.html</title>
</head>
<body>
<%
String name = request.getParameter("uname");
out.print("welcome " + name);
%>
</body>
</html>
```

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/requestObject/index.html - Eclipse IDE

Navigator (Deprecated) ×

- main
 - java
 - webApp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - applicationObject
 - configObject
 - index.html
 - web.xml
 - welcome.jsp
 - exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - outObject
 - index.jsp
 - pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
- requestObject
- app.jsp
- index.html
- responseObject
- sessionObject
- 3-factorial
- 4-Fibonacci
- 5-Power-of-2
- 6-System-Data-Time
- 7-Order-Form
- 8-Sine-Table
- 9-Registration-Form
- META-INF
- WEB-INF

classpath

project

Servers

Done

Request Object Example ×

Akriti

app.jsp ×

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <meta charset="ISO-8859-1">
4 <title>jsp file for index.html</title>
5 </head>
6 <body>
7 <% String name = request.getParameter("uname"); %>
8 <h1>welcome <%= name %</h1>
9 </body>
10</html>
11 String name = request.getParameter("uname");
12 out.print("welcome " + name);
13 %
14 </body>
15 </html>

```

index.html ×

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Request Object Example</title>
6 </head>
7 <body>
8 <form action="app.jsp">
9 <input type="text" name="uname"> <input type="submit" value="Submit">
10 </form>
11 </body>
12 </html>

```

eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/requestObject/app.jsp?uname=Akrithi - Eclipse IDE

Navigator (Deprecated) ×

- main
 - java
 - webApp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - applicationObject
 - configObject
 - index.html
 - web.xml
 - welcome.jsp
 - exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - outObject
 - index.jsp
 - pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
- requestObject
- app.jsp
- index.html
- responseObject
- sessionObject
- 3-factorial
- 4-Fibonacci
- 5-Power-of-2
- 6-System-Data-Time
- 7-Order-Form
- 8-Sine-Table
- 9-Registration-Form
- META-INF
- WEB-INF

classpath

project

Servers

Done

welcome Akrithi

app.jsp ×

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <meta charset="ISO-8859-1">
4 <title>jsp file for index.html</title>
5 </head>
6 <body>
7 <% String name = request.getParameter("uname"); %>
8 <h1>welcome <%= name %</h1>
9 </body>
10</html>
11 String name = request.getParameter("uname");
12 out.print("welcome " + name);
13 %
14 </body>
15 </html>

```

index.html ×

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Request Object Example</title>
6 </head>
7 <body>
8 <form action="app.jsp">
9 <input type="text" name="uname"> <input type="submit" value="Submit">
10 </form>
11 </body>
12 </html>

```

eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/requestObject/app.jsp?uname=Akrithi - Eclipse IDE

Navigator (Deprecated) ×

- main
 - java
 - webApp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - applicationObject
 - configObject
 - index.html
 - web.xml
 - welcome.jsp
 - exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - outObject
 - index.jsp
 - pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
- requestObject
- app.jsp
- index.html
- responseObject
- sessionObject
- 3-factorial
- 4-Fibonacci
- 5-Power-of-2
- 6-System-Data-Time
- 7-Order-Form
- 8-Sine-Table
- 9-Registration-Form
- META-INF
- WEB-INF

classpath

project

Servers

Done

welcome Akrithi

app.jsp ×

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <meta charset="ISO-8859-1">
4 <title>jsp file for index.html</title>
5 </head>
6 <body>
7 <% String name = request.getParameter("uname"); %>
8 <h1>welcome <%= name %</h1>
9 </body>
10</html>
11 String name = request.getParameter("uname");
12 out.print("welcome " + name);
13 %
14 </body>
15 </html>

```

index.html ×

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Request Object Example</title>
6 </head>
7 <body>
8 <form action="app.jsp">
9 <input type="text" name="uname"> <input type="submit" value="Submit">
10 </form>
11 </body>
12 </html>

```

(ii.) response object:

index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>

```

```
</head>
<body>
    <form action="checkDetails.jsp">
        UserId: <input type="text" name="id" /> <br> <br> Password:
        <input type="text" name="pass" /> <br> <br> <input
            type="submit" value="Sign In!!" />
    </form>
</body>
</html>
```

checkDetails.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
    <%
        String uid = request.getParameter("id");
        String password = request.getParameter("pass");
        session.setAttribute("session-uid", uid);
        if (uid.equals("akriti") && password.equals("nitt")) {
            response.sendRedirect("success.jsp");
        }
        else {
            response.sendRedirect("failed.jsp");
        }
    %>
</body>
</html>
```

success.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Success</title>
</head>
<body>
<%
String data = (String) session.getAttribute("session-uid");
out.println("Welcome " + data + "!!");
%>
</body>
</html>
```

failed.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Failed</title>
</head>
<body>
<%
String data2 = (String) session.getAttribute("session-uid");
out.println("Hi " + data2 + ". Id/Password are wrong. Please try Again.");
%>
</body>
</html>
```

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/responseObject/index.html - Eclipse IDE

User Id: skrili
Password: 12345
Sign In!!

```

index.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6 </head>
7 <body>
8 <form action="checkDetails.jsp">
9   UserId: <input type="text" name="id" /> <br> <br> Password: <input type="text" name="pass" /> <br> <br> <input type="submit" value="Sign In!!" />
10 </form>
11 </body>
12 </html>
13
14

```

```

failed.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Failed</title>
7 </head>
8 <body>
9
10 </body>
11 </html>

```

```

success.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Success</title>
7 </head>
8 <body>
9
10 </body>
11 </html>

```

Hi skrili. Id/Password are wrong. Please try Again.

```

index.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6 </head>
7 <body>
8 <form action="checkDetails.jsp">
9   UserId: <input type="text" name="id" /> <br> <br> Password: <input type="text" name="pass" /> <br> <br> <input type="submit" value="Sign In!!" />
10 </form>
11 </body>
12 </html>
13
14

```

```

failed.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Failed</title>
7 </head>
8 <body>
9
10 </body>
11 </html>

```

```

success.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Success</title>
7 </head>
8 <body>
9
10 </body>
11 </html>

```

```

checkDetails.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9   response.sendRedirect("success.jsp");
10  } else {
11    response.sendRedirect("failed.jsp");
12  }
13 </body>
14 </html>

```

Screenshot of Eclipse IDE showing two JSP projects side-by-side:

- Top Project (index.html):**
 - Shows a JSP page with form fields for UserId (akriti) and Password (nitt).
 - The code includes a checkDetails.jsp scriptlet that retrieves session attributes.
- Bottom Project (success.jsp):**
 - Shows a JSP page displaying "Welcome akriti!!".
 - The code includes a checkDetails.jsp scriptlet that checks session attributes against the input values.

(iii.) application object:

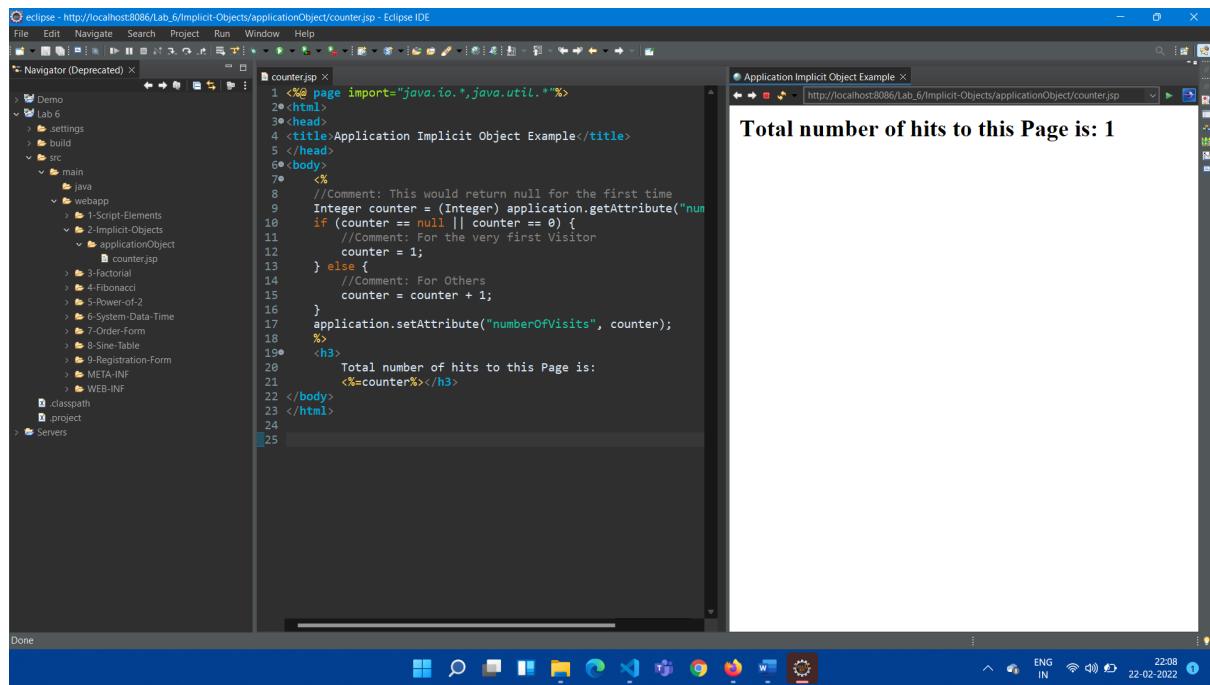
counter.jsp

```
<%@ page import="java.io.* , java.util.*"%>
<html>
<head>
<title>Application Implicit Object Example</title>
</head>
<body>
```

```

<%
//Comment: This would return null for the first time
Integer counter = (Integer) application.getAttribute("numberOfVisits");
if (counter == null || counter == 0) {
    //Comment: For the very first Visitor
    counter = 1;
} else {
    //Comment: For Others
    counter = counter + 1;
}
application.setAttribute("numberOfVisits", counter);
%>
<h3>
    Total number of hits to this Page is:
    <%=counter%></h3>
</body>
</html>

```



(iv.) out object:

```

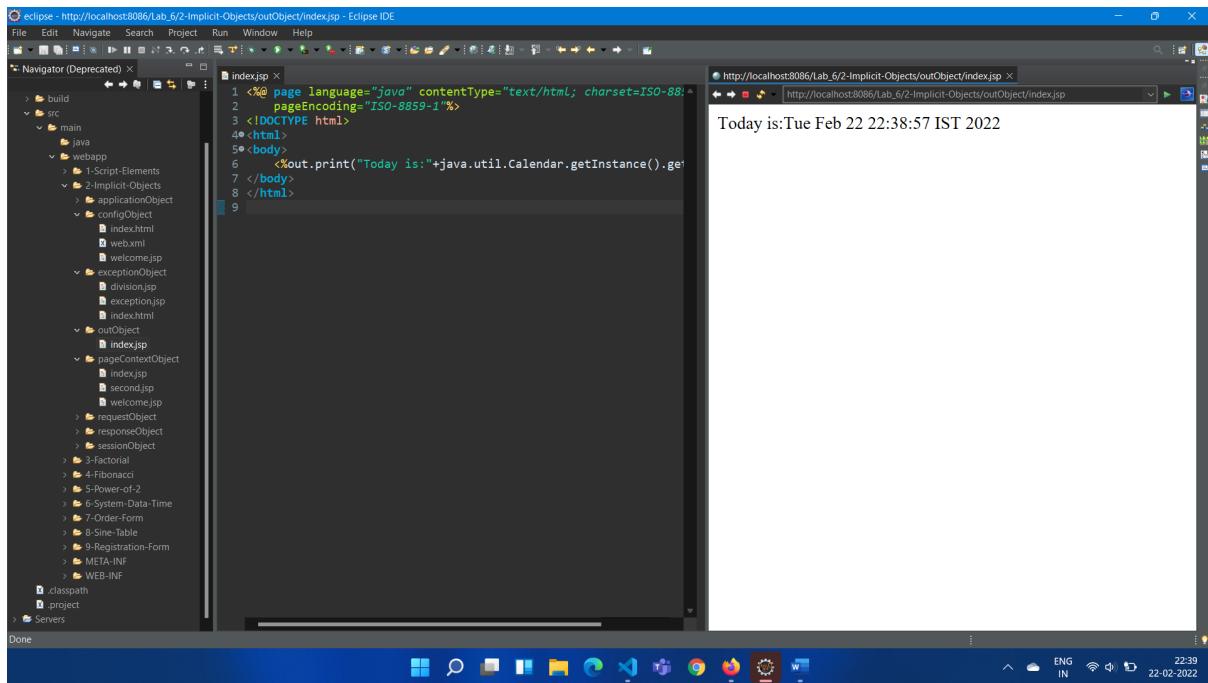
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>

```

```

<html>
<body>
    <%out.print("Today is:"+java.util.Calendar.getInstance().getTime());%>
</body>
</html>

```



(v.) config object:

index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form action="welcome">
    <input type="text" name="uname"> <input type="submit"
        value="go"><br />
</form>
</body>
</html>

```

welcome.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%
    out.print("Welcome " + request.getParameter("uname"));
    String driver = config.getInitParameter("dname");
    out.print("driver name is=" + driver);
%
</body>
</html>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
    http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
    id="WebApp_ID" version="4.0">
    <display-name>HelloWorld</display-name>
    <servlet>
        <servlet-name>welcome</servlet-name>
```

```
<jsp-file>/welcome.jsp</jsp-file>

<init-param>
    <param-name>dname</param-name>
    <param-value>com.mysql.jdbc.Driver</param-value>
</init-param>

</servlet>

<servlet-mapping>
    <servlet-name>welcome</servlet-name>
    <url-pattern>/welcome</url-pattern>
</servlet-mapping>

<welcome-file-list>
    <welcome-file>index.html</welcome-file>
</welcome-file-list>

</web-app>
```

Screenshot of Eclipse IDE showing the development environment for a Java web application.

Project Structure:

- Lab 6
- src
 - main
 - java
 - webapp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - 3-Factorial
 - 4-Fibonacci
 - 5-Power-of-2
 - 6-System-Data-Time
 - 7-Order-Form
 - 8-Sine-Table
 - 9-Registration-Form
 - META-INF
 - WEB-INF
 - lib
 - web.xml
 - index.html
 - welcome.jsp
 - .classpath
 - project
 - Servers

(vi.) session object:

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
```

```
</head>
<body>
    <form action="welcome.jsp">
        <input type="text" name="uname"> <input type="submit"
            value="go"><br />
    </form>

</body>
</html>
```

welcome.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
    <head>
        <meta charset="ISO-8859-1">
        <title>Insert title here</title>
    </head>
    <body>

        <%
        String name = request.getParameter("uname");
        out.print("Welcome " + name);

        session.setAttribute("user", name);
        %>

        <a href="second.jsp">Display the value</a>

    </body>
</html>
```

second.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
```

```
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<h1>Display the session value on this page</h1>

<%
String name=(String)session.getAttribute("user");
out.print("Hello "+name);
%>

</body>
</html>
```

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/sessionObject/index.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Navigator (Deprecated) >

- 2-Implicit-Objects
 - applicationObject
 - counter.jsp
 - configObject
 - index.html
 - web.xml
 - exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - outObject
 - index.jsp
 - pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
 - requestObject
 - app.jsp
 - index.html
 - responseObject
 - checkDetails.jsp
 - failed.jsp
 - index.html
 - success.jsp
 - sessionObject
 - index.html
 - second.jsp
 - welcome.jsp
 - META-INF
 - WEB-INF

Insert title here > http://localhost:8086/Lab_6/2-Implicit-Objects/sessionObject/index.html

Akriti go

```

index.html <
1 <!DOCTYPE html>
2<html>
3<head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6</head>
7<body>
8<form action="welcome.jsp">
9 <input type="text" name="uname"> <input type="submit"
10 value="go"><br />
11 </form>
12
13</body>
14</html>
15

```

```

second.jsp <
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4<html>
5<head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8</head>
9<body>
10<h1>Welcome Akriti</h1>
11<p>Display the value</p>
12</body>
13</html>
14

```

```

welcome.jsp <
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4<html>
5<head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8</head>
9<body>
10<h1>Welcome Akriti</h1>
11<p>Display the value</p>
12</body>
13</html>
14

```

22:27 22-02-2022

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/sessionObject/welcome.jsp?uname=Akriti - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Navigator (Deprecated) >

- 2-Implicit-Objects
 - applicationObject
 - counter.jsp
 - configObject
 - index.html
 - web.xml
 - exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - outObject
 - index.jsp
 - pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
 - requestObject
 - app.jsp
 - index.html
 - responseObject
 - checkDetails.jsp
 - failed.jsp
 - index.html
 - success.jsp
 - sessionObject
 - index.html
 - second.jsp
 - welcome.jsp
 - META-INF
 - WEB-INF

Insert title here > http://localhost:8086/Lab_6/2-Implicit-Objects/sessionObject/welcome.jsp?uname=Akriti

Welcome Akriti [Display the value](#)

```

index.html <
1 <!DOCTYPE html>
2<html>
3<head>
4 <meta charset="ISO-8859-1">
5 <title>Insert title here</title>
6</head>
7<body>
8<form action="welcome.jsp">
9 <input type="text" name="uname"> <input type="submit"
10 value="go"><br />
11 </form>
12
13</body>
14</html>
15

```

```

second.jsp <
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4<html>
5<head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8</head>
9<body>
10<h1>Welcome Akriti</h1>
11<p>Display the value</p>
12</body>
13</html>
14

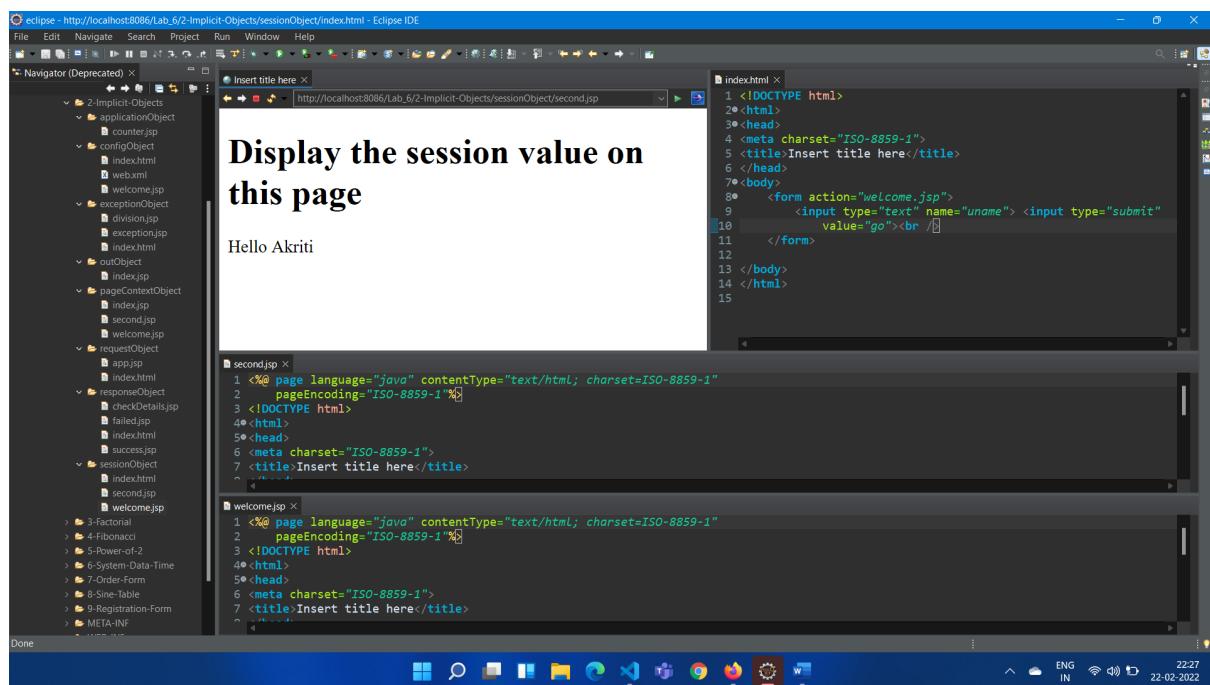
```

```

welcome.jsp <
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2 pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4<html>
5<head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8</head>
9<body>
10<h1>Welcome Akriti</h1>
11<p>Display the value</p>
12</body>
13</html>
14

```

22:27 22-02-2022



(vii.) pageContext object:

index.html

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>GeeksforGeeks</title>
</head>
<body>

<form action="welcome.jsp">
<input type="text" name="uname"> <input type="submit" value="go"><br />
</form>

</body>
</html>

```

welcome.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>

```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<%
String name = request.getParameter("uname");
out.print("Welcome " + name);

pageContext.setAttribute("user", name, PageContext.SESSION_SCOPE);
%>

<a href="second.jsp">second jsp page</a>

</body>
</html>
```

second.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>

<%
String
name=(String)pageContext.getAttribute("user",PageContext.SESSION_SCOPE);
out.print("Hello "+name);
```

%>

</body>

</html>

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/pageContextObject/index.jsp - Eclipse IDE

Navigator (Deprecated)

- > settings
- > build
- > src
 - > main
 - > java
 - > webapp
 - > 1-Script-Elements
 - > 2-Implicit-Objects
 - > applicationObject
 - > configObject
 - index.html
 - web.xml
 - welcome.jsp
 - > exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - > outObject
 - > pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
 - > requestObject
 - > responseObject
 - > sessionObject
 - > 3-Factorial
 - > 4-Fibonacci
 - > 5-Power-of-2
 - > 6-System-Data-Time
 - > 7-Order-Form
 - > 8-Sine-Table
 - > 9-Registration-Form
 - > META-INF
 - > WEB-INF
 - > classpath
 - > project
 - > Servers

GeeksforGeeks

Akriti

index.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>GeeksforGeeks</title>
7 </head>
8 <body>
9 <form action="welcome.jsp">
10   <input type="text" name="uname"> <input type="submit" value="go"><br />
11 </form>
12 </body>
13 </html>

```

second.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9 <%
10 <%
11 String name=(String)pageContext.getAttribute("user",PageContext
12 out.print("Hello "+name);
13 
14 <%
15 
16 <%
17

```

welcome.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9 <%
10 <%
11 String name = request.getParameter("uname");
12 out.print("Welcome " + name);
13 
14 pageContext.setAttribute("user", name, PageContext.SESSION_
15 
16 <%
17

```

Eclipse - http://localhost:8086/Lab_6/2-Implicit-Objects/pageContextObject/welcome.jsp?uname=Akriti - Eclipse IDE

Navigator (Deprecated)

 - > settings
 - > build
 - > src
 - > main
 - > java
 - > webapp
 - > 1-Script-Elements
 - > 2-Implicit-Objects
 - > applicationObject
 - > configObject
 - index.html
 - web.xml
 - welcome.jsp
 - > exceptionObject
 - division.jsp
 - exception.jsp
 - index.html
 - > outObject
 - > pageContextObject
 - index.jsp
 - second.jsp
 - welcome.jsp
 - > requestObject
 - > responseObject
 - > sessionObject
 - > 3-Factorial
 - > 4-Fibonacci
 - > 5-Power-of-2
 - > 6-System-Data-Time
 - > 7-Order-Form
 - > 8-Sine-Table
 - > 9-Registration-Form
 - > META-INF
 - > WEB-INF
 - > classpath
 - > project
 - > Servers

Insert title here

Welcome Akriti [second.jsp page](#)

index.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>GeeksforGeeks</title>
7 </head>
8 <body>
9 <form action="welcome.jsp">
10   <input type="text" name="uname"> <input type="submit" value="go"><br />
11 </form>
12 </body>
13 </html>

```

second.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9 <%
10 <%
11 String name=(String)pageContext.getAttribute("user",PageContext
12 out.print("Hello "+name);
13 
14 <%
15 
16 <%
17

```

welcome.jsp

```

1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9 <%
10 <%
11 String name = request.getParameter("uname");
12 out.print("Welcome " + name);
13 
14 pageContext.setAttribute("user", name, PageContext.SESSION_
15 
16 <%
17

```

```

index.jsp
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title>GeeksforGeeks</title>
6 </head>
7 <body>
8
9     <form action="welcome.jsp">
10         <input type="text" name="uname"> <input type="submit" value="go"><br />
11     </form>
12
13 </body>
14 </html>

second.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9
10 <%>
11
12 String name=(String)pageContext.getAttribute("user",PageContext
13 out.print("Hello "+name);
14
15 <%
16 <%
17

```

```

welcome.jsp
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <!DOCTYPE html>
3 <html>
4 <head>
5 <meta charset="ISO-8859-1">
6 <title>Insert title here</title>
7 </head>
8 <body>
9
10 <%
11
12 String name = request.getParameter("uname");
13 out.print("Welcome " + name);
14
15 pageContext.setAttribute("user", name, PageContext.SESSION_
16 <%
17

```

(viii.) Exception object

index.html

```

<html>
<head>
<title>Enter two Integers for Division</title>
</head>
<body>
<form action="division.jsp">
    Input First Integer:<input type="text" name="firstnum" /> Input
    Second Integer:<input type="text" name="secondnum" /> <input
        type="submit" value="Get Results" />
</form>
</body>
</html>

```

division.jsp

```

<%@ page errorPage="exception.jsp"%>
<%
String num1 = request.getParameter("firstnum");
String num2 = request.getParameter("secondnum");
int v1 = Integer.parseInt(num1);

```

```

int v2 = Integer.parseInt(num2);
int res = v1 / v2;
out.print("Output is: " + res);
%>

```

exception.jsp

```

<%@ page isErrorPage="true" %>
Got this Exception: <%= exception %>
Please correct the input data.

```

The screenshot shows the Eclipse IDE interface with two code editors and a browser window.

- Code Editors:**
 - index.html:** Contains JSP code for a form to enter two integers for division.
 - division.jsp:** Contains Java code to perform integer division and print the result.
 - exception.jsp:** Contains JSP code to handle exceptions and display an error message.
- Browser Output:** A screenshot of a web browser showing the division.jsp page. It has two input fields: "Input First Integer" with value "12" and "Input Second Integer" with value "2". Below the inputs is a "Get Results" button. The browser's status bar shows the URL as `http://localhost:8086/Lab_6/2-Implicit-Objects/exceptionObject/index.html`.

The screenshot shows the Eclipse IDE interface with the same three code editors and browser window as the previous one, but the browser output has changed.

- Browser Output:** The browser now displays the output of the division.jsp page, which is "Output is: 6". The browser's status bar shows the URL as `http://localhost:8086/Lab_6/2-Implicit-Objects/exceptionObject/division.jsp?firstnum=12&secondnum=2`.

-
- 3. The following JSP program calculates factorial values for an integer number, while the input is taken from an HTML form.**

3_fact.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Factorial</title>
</head>
<body>
<%
    String n = request.getParameter("num");
    int num = Integer.parseInt(n);
    int factorial = 1;
    for(int i=num; i>=1; i--){
        factorial *= i;
    }
    out.print("Factorial of " + num + " is: " + factorial);
%
</body>
</html>
```

3_index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Factorial</title>
</head>
<body>
<h1>Factorial:</h1>
```

```

<h3>Enter a number: </h3>
<form action="3_fact.jsp" method="post">
<input type="number" name="num">
<input type="submit" value="Go"><br/>
</form>
</body>
</html>

```

The screenshot shows the Eclipse IDE interface with two files open:

- Factorial.jsp** (Left): Contains JSP code to calculate the factorial of a number entered by the user.
- index.html** (Right): Contains the HTML structure for the Factorial application.

The browser preview window shows the Factorial page with the title "Factorial:" and a form asking "Enter a number:" with an input field and a "Go" button.

The screenshot shows the Eclipse IDE interface with two files open:

- Factorial.jsp** (Left): Contains JSP code to calculate the factorial of a number entered by the user.
- index.html** (Right): Contains the HTML structure for the Factorial application.

The browser preview window shows the result of the calculation: "Factorial of 5 is: 120".

-
- 4. The following JSP program shows the Fibonacci series up to a particular term, while the input is taken from an HTML form.**

4_fib.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Fibonacci Series</title>
</head>
<body>
<%!
    int n;
    String str;

    int fibo(int n){
        if(n<2)
            return n;
        else
            return fibo(n-1) + fibo(n-2);
    }
%>
<h3>Fibonacci series:</h3><br>
<%
    str = request.getParameter("num");
    n = Integer.parseInt(str);

    for(int i=0; i<n; i++) {
        out.print(fibo(i) + " ");
    }
%>
</body>
```

```
</html>
```

4_index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Fibonacci Series</title>
</head>
<body>
<h1>Fibonacci Series:</h1>
<h3>Enter the term upto which you want to display the Fibonacci Series:</h3>
<form action="4_fib.jsp" method="post">
<input type="number" name="num">
<input type="submit" value="Go"><br/>
</form>
</body>
</html>
```

The screenshot shows the Eclipse IDE interface with two panes. The left pane displays two files: '4.fib.jsp' and '4.index.html'. '4.fib.jsp' contains Java code for calculating Fibonacci numbers. '4.index.html' is an HTML form that prompts the user to enter a term and then displays the Fibonacci series up to that term. The right pane shows the browser output for the URL http://localhost:8086/Lab_6/4.index.html. The title is 'Fibonacci Series:' and it asks 'Enter the term upto which you want to display the Fibonacci Series:'. A text input field has '10' entered and a 'Go' button. The browser output also shows the Fibonacci series from 0 to 14.

The second screenshot shows the same Eclipse IDE setup, but the browser output has changed. The title is now 'Fibonacci series:' and the content area displays the Fibonacci sequence: 0 1 1 2 3 5 8 13 21 34.

5. JSP program calculates Powers of 2 for integers in the range 0-10

5_powerOf2.jsp

```
%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
```

```

<head>
<meta charset="ISO-8859-1">
<title>Power of 2</title>
</head>
<body>
<table border="2" align="center">
<tr>
<th>Number</th>
<th>2^Number</th>
</tr>
<% for (int i=0; i<=10; i++) { %>
<tr>
<td><%= i %></td>
<td><%= Math.pow(2, i) %></td>
</tr>
<% } %>
</table>
</body>
</html>

```

The screenshot shows the Eclipse IDE interface with a JSP file named '5.powerOf2.jsp' open in the editor. The code generates a table showing powers of 2 from 0 to 10. The browser preview window shows the resulting table:

Number	2^Number
0	1.0
1	2.0
2	4.0
3	8.0
4	16.0
5	32.0
6	64.0
7	128.0
8	256.0
9	512.0
10	1024.0

6. JSP program shows the System date and time.

6_data_time.jsp

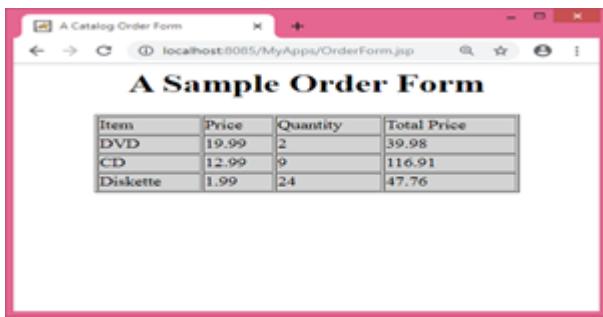
```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>System Date and Time</title>
</head>
<body>
<%@ page import="java.util.Date" %>
<%!
    Date date;
%>
<%
    date = new Date();
%>
<h4>System date and time: </h4><br/> <%= date %>
</body>
</html>

```

The screenshot shows the Eclipse IDE interface with a JSP file named "6.date_time.jsp" open in the editor. The code is identical to the one above. To the right of the editor, a browser window is displayed, showing the output of the JSP. The title of the browser window is "System Date and Time". Inside the browser, the text "System date and time:" is followed by the current date and time: "Tue Feb 22 15:48:43 IST 2022". The browser's address bar shows the URL "http://localhost:8086/lab_6/6_date_time.jsp". The system tray at the bottom right indicates the date as "22-02-2022" and the time as "1548".

7. JSP program shows a Sample Order Form.



7_orderForm.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Order Form</title>
<body>
    <h1 ALIGN="center">A Sample Order Form</h1>
    <%
        String item[] = {"DVD", "CD", "Diskette"};
        double price[] = {19.99, 12.99, 1.99};
        int quantity[] = {2, 9, 24};
    %>
    <table align="center" bgcolor="lightgray" border="1" width="75%">
        <tr>
            <td>Item</td>
            <td>Price</td>
            <td>Quantity</td>
            <td>Total Price</td>
        </tr>
        <% for (int i=0; i<3; i++) { %>
            <tr>
                <td><%= item[i] %></td>
                <td><%= price[i] %></td>
                <td><%= quantity[i] %></td>
                <td><%= price[i] * quantity[i] %></td>
            </tr>
        <% } %>
    </table>
</body>
</html>
```

The screenshot shows the Eclipse IDE interface with a JSP file named 7.orderForm.jsp open. The code includes a title "A Sample Order Form" and a table with three rows: DVD (19.99), CD (12.99), and Diskette (1.99). Below the table, there is a JSP loop that generates a sine table with four columns: item, price, quantity, and total price. The generated HTML output shows the same table structure and the dynamically generated sine table.

```

    1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    2     pageEncoding="ISO-8859-1"%>
    3 <!DOCTYPE html>
    4 <html>
    5 <head>
    6 <meta charset="ISO-8859-1">
    7 <title>Order Form</title>
    8 <body>
    9     <h1 ALIGN="center">A Sample Order Form</h1>
    10    <table align="center" bgcolor="Lightgray" border="1" width="75%">
    11        <tr>
    12            <td>Item</td>
    13            <td>Price</td>
    14            <td>Quantity</td>
    15            <td>Total Price</td>
    16        </tr>
    17        <% String item[] = {"DVD", "CD", "Diskette"};
    18            double price[] = {19.99, 12.99, 1.99};
    19            int quantity[] = {2, 9, 24};
    20            %>
    21        <tr>
    22            <% for (int i=0; i<3; i++) { %>
    23                <tr>
    24                    <td><%= item[i] %></td>
    25                    <td><%= price[i] %></td>
    26                    <td><%= quantity[i] %></td>
    27                    <td><%= price[i] * quantity[i] %></td>
    28                </tr>
    29            <% } %>
    30        </table>
    31    </body>
    32 </html>

```

8. JSP program shows a Sine Table using java.lang.Math class.

Degrees	values
0	0.0
30	0.5
90	1

8_sineTable.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
    <title>Sine Table</title>
</head>
<body>

```

```

<%!
    int degrees[] = {0, 30, 90};
    double number;
    String result;
%>
<table border="2" align="center">
<tr>
    <th>Degree</th>
    <th>Value</th>
</tr>
<%
    for (int i=0; i<degrees.length; i++) { //start for loop
        number = Math.sin(Math.toRadians(degrees[i]));
        result = String.format("%.1f", number);
    %>
    <tr>
        <td><%= degrees[i] %></td>
        <td><%= result %></td>
    </tr>
<% } //end for loop %>
</table>
</body>
</html>

```

The screenshot shows the Eclipse IDE interface with a JSP file named '8 sineTable.jsp' open in the editor. The code generates a sine table for degrees 0, 30, and 90. To the right of the editor, a browser window titled 'Sine Table' displays the generated HTML table:

Degree	Value
0	0.0
30	0.5
90	1.0

9. Registration form is created by using JSP

9_regForm.html

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Registration Form</title>
</head>
<body>
<%
    String fname = request.getParameter("firstname");
    String lname = request.getParameter("lastname");
    String email = request.getParameter("email");
    String mobile = request.getParameter("mobile");
    String address = request.getParameter("address");
%>
<h1>Welcome :)</h1>
<h3>Following are your details: </h3>
<%
    out.println("First Name:      " + fname + "<br><br>");
    out.println("Last Name:      " + lname + "<br><br>");
    out.println("Email ID:      " + email + "<br><br>");
    out.println("Mobile Number:  " + mobile + "<br><br>");
    out.println("Address:      " + address + "<br><br>");
%>
<h4>Have a Nice Day!</h4>
</body>
</html>
```

9_index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
```

```
<title>Registration Form</title>

<style>
body{
    margin: 40px;
    background-color: blanchedalmond;
    display: flex;
    justify-content: center;
}

h1{
    background-color: yellow;
    padding: 20px;
    border-radius: 2rem;
}

.input-field{
    border-radius: 1rem;
    padding: 10px;
    margin-top: 5px;
}

label{
    font-size: 20px;
}

button{
    padding: 5px;
    margin: 10px;
    width: 100px;
    font-size: 20px;
    background-color: aqua;
}

/*
</style>
```

```
</head>

<body>

    <div id="form-container">

        <h1>Registration Form</h1>

        <form name = "registration" id="registration" action="9_regForm.jsp">

            <label for="firstname">First Name:</label><br>

            <input class="input-field" type="text" name="firstname" id="firstname" value="" required>

            <br>

            <br>

            <label for="lastname">Last Name:</label><br>

            <input class="input-field" type="text" name="lastname" id="lastname" value="" required>

            <br>

            <br>

            <label for="email">Email:</label><br>

            <input class="input-field" type="email" name="email" id="email" value="" required>

            <br>

            <br>

            <label for="mobile">Mobile Number:</label><br>

            <input class="input-field" type="text" name="mobile" id="mobile" value="" required>

            <br>

            <br>

            <label for="address">Address:</label><br>

            <textarea class="input-field" name="address" id="address" rows="6" cols="35" required></textarea>

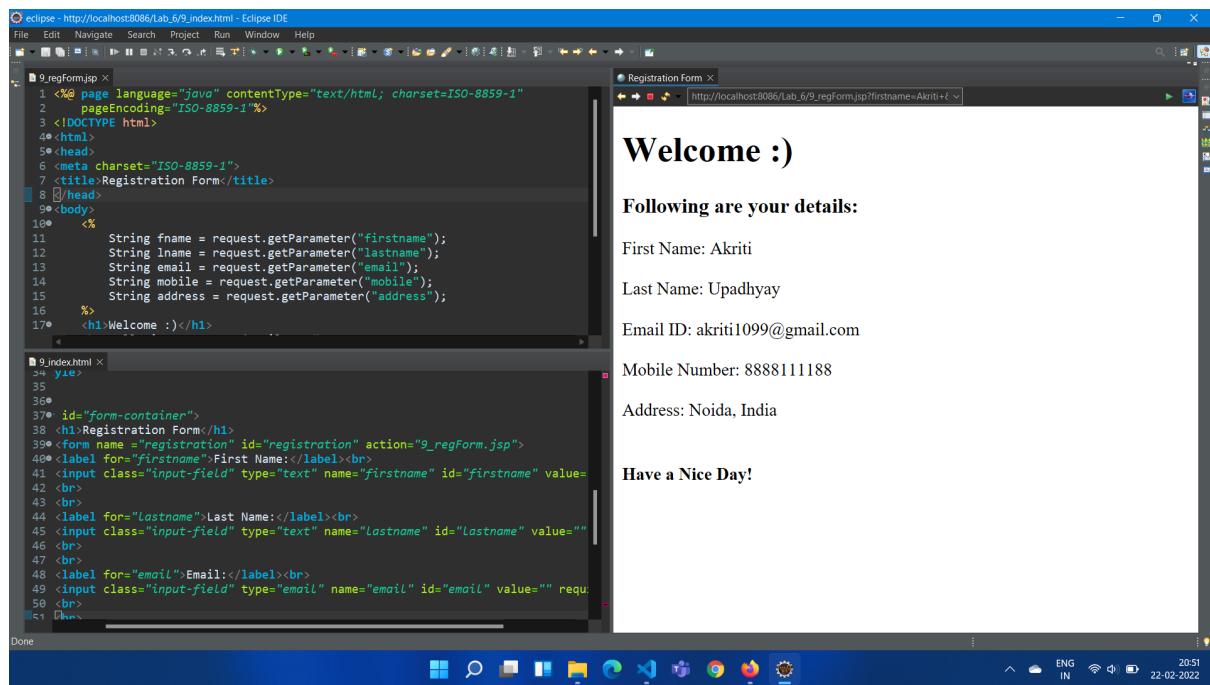
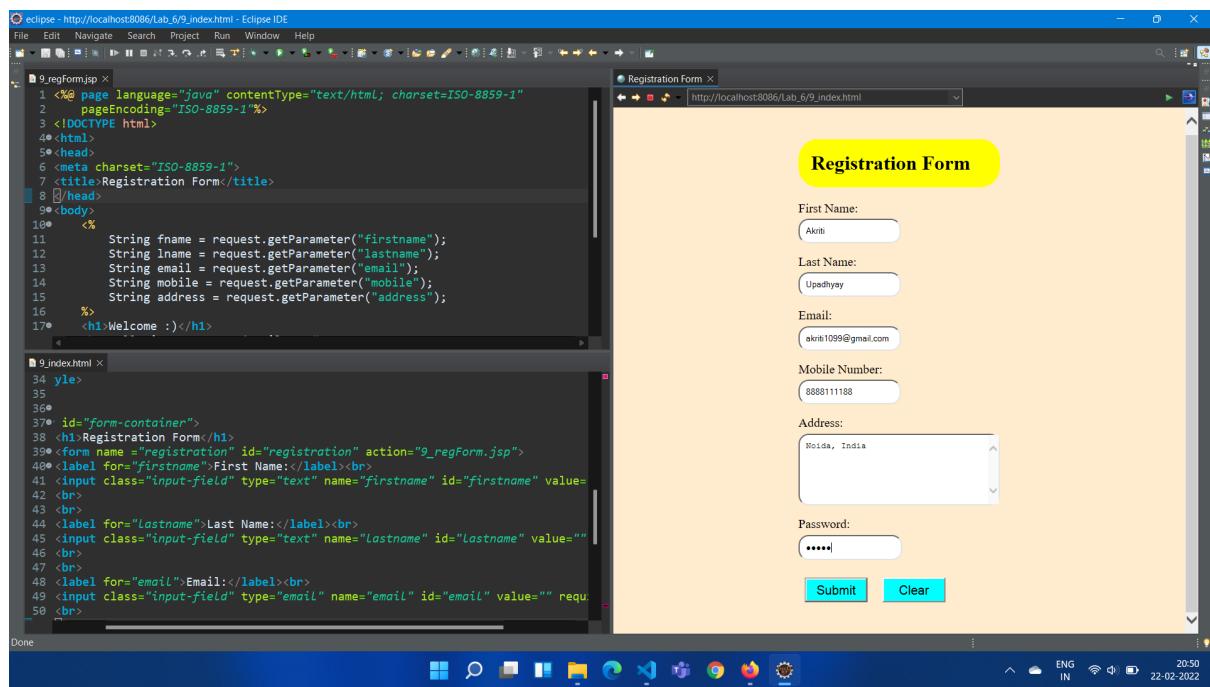
            <br>

            <br>

            <label for="password">Password:</label><br>

            <input class="input-field" type="password" name="password" id="password" value="" required>
```

```
<br>
<br>
<button type="submit" value="Submit">Submit</button>
<button type="reset" id=btn>Clear</button>
</form>
</div>
</body>
</html>
```



10. Implement the following web applications using JSP

A web application that takes a name as input and on submit 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).

index.html

```
<!DOCTYPE html>

<html>
<head>
<meta charset="ISO-8859-1">
<title>Document</title>
</head>
<body>
<form action="welcome.jsp">
<label for="name">Enter your name:</label>
<input type="text" name="name">
<input type="submit" value="Go"><br/>
</form>
</body>
</html>
```

welcome.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
```

```

<title>Welcome</title>
</head>
<body>

<%@ page import="java.util.Date" %>
<%
String name = request.getParameter("name");
session.setAttribute("user", name);

Date createTime = new Date(session.getCreationTime());
out.print("Session start time: " + createTime + "<br/><br/>");
session.setAttribute("startTime", createTime);

out.print("Welcome " + name + "<br><br>");
%>

<a href="logout.jsp"><input type="button" value="Logout"></a>
</body>
</html>

```

logout.jsp

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>

```

```
</head>

<body>

<%@ page import="java.util.Date" %>

<%
String name = (String)session.getAttribute("user");
out.print("Thankyou "+name);

Date startTime = (Date)session.getAttribute("startTime");
Date currentTime = new Date();

out.print("<br/><br/>Your session duration is: " +
(currentTime.getTime()-startTime.getTime()) + " ms");

%>

</body>
</html>
```

eclipse - http://localhost:8086/Lab_6/10-Session-Time/index.html - Eclipse IDE

Navigator (Deprecated)

- > Demo
- < Lab 6
 - > settings
 - > build
 - < main
 - java
 - webapp
 - > 10-Session-Time
 - index.html
 - logout.jsp
 - welcome.jsp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - 3-Factorial
 - 4-Fibonacci
 - 5-Power-of-2
 - 6-System-Data-Time
 - 7-Order-Form
 - 8-Sine-Table
 - 9-Registration-Form
 - META-INF
 - WEB-INF
 - .classpath
 - .project

Servers

Document x http://localhost:8086/Lab_6/10-Session-Time/index.html

Enter your name: Akriti Upadhyay Go

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Document</title>
</head>
<body>
<form action="welcome.jsp">
<label for="name">Enter your name:</label>
<input type="text" name="name">
<input type="submit" value="Go"><br/>
</form>
</body>
</html>

```

logout.jsp x

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%>
String name = (String)session.getAttribute("user");
out.print("Thankyou "+name);
<%
Date startTime = (Date)session.getAttribute("startTime");
Date currentTime = new Date();

```

welcome.jsp x

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome</title>
</head>
<body>
<%>
String name = request.getParameter("name");
session.setAttribute("user", name);
<%
Date createTime = new Date(session.getCreationTime());
out.print("Session start time: " + createTime + "<br/><br/>");
session.setAttribute("startTime", createTime);

```

Done 10:58 IN 23-02-2022

eclipse - http://localhost:8086/Lab_6/10-Session-Time/index.html - Eclipse IDE

Navigator (Deprecated)

- > Demo
- < Lab 6
 - > settings
 - > build
 - < main
 - java
 - webapp
 - > 10-Session-Time
 - index.html
 - logout.jsp
 - welcome.jsp
 - 1-Script-Elements
 - 2-Implicit-Objects
 - 3-Factorial
 - 4-Fibonacci
 - 5-Power-of-2
 - 6-System-Data-Time
 - 7-Order-Form
 - 8-Sine-Table
 - 9-Registration-Form
 - META-INF
 - WEB-INF
 - .classpath
 - .project

Servers

Welcome x http://localhost:8086/Lab_6/10-Session-Time/welcome.jsp?name=Akriti+Upadhyay

Session start time: Wed Feb 23 10:58:45 IST 2022

Welcome Akriti Upadhyay

Logout

```

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Document</title>
</head>
<body>
<form action="welcome.jsp">
<label for="name">Enter your name:</label>
<input type="text" name="name">
<input type="submit" value="Go"><br/>
</form>
</body>
</html>

```

logout.jsp x

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<%>
String name = (String)session.getAttribute("user");
out.print("Thankyou "+name);
<%
Date startTime = (Date)session.getAttribute("startTime");
Date currentTime = new Date();

```

welcome.jsp x

```

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Welcome</title>
</head>
<body>
<%>
String name = request.getParameter("name");
session.setAttribute("user", name);
<%
Date createTime = new Date(session.getCreationTime());
out.print("Session start time: " + createTime + "<br/><br/>");
session.setAttribute("startTime", createTime);

```

Done 10:58 IN 23-02-2022

eclipse - http://localhost:8086/Lab_6/10-Session-Time/index.html - Eclipse IDE

File Edit Navigate Search Project Run Window Help

Navigator (Deprecated) > Demo Lab 6 > settings build > main > java > webapp > 10-Session-Time > index.html > logout.jsp > welcome.jsp > 1-Script-Elements > 2-Implicit-Objects > 3-Factorial > 4-Fibonacci > 5-Power-of-2 > 6-System-Data-Time > 7-Order-Form > 8-Site-table > 9-Registration-Form > WEB-INF classpath project > Servers

Insert title here > http://localhost:8086/Lab_6/10-Session-Time/logout.jsp

Thankyou Akriti Upadhyay

Your session duration is: 10365 ms

index.html

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset="ISO-8859-1">
5 <title> Document</title>
6 </head>
7 <body>
8 <form action="welcome.jsp">
9 <label for="name">Enter your name:</label>
10 <input type="text" name="name">
11 <input type="submit" value="Go"><br/>
12 </form>
13 </body>
14 </html>
```

logout.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <%@ pageEncoding="ISO-8859-1" %>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1">
7 <title>Insert title here</title>
8 </head>
9 <body>
10 <%@ page import="java.util.Date" %>
11 <%
12 String name = (String)session.getAttribute("user");
13 out.print("Thankyou "+name);
14
15 Date startTime = (Date)session.getAttribute("startTime");
16 Date currentTime = new Date();
17
```

welcome.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1" %>
2 <%@ pageEncoding="ISO-8859-1" %>
3 <!DOCTYPE html>
4 <html>
5 <head>
6 <meta charset="ISO-8859-1">
7 <title> Welcome</title>
8 </head>
9 <body>
10 <%@ page import="java.util.Date" %>
11 <%
12 String name = request.getParameter("name");
13 session.setAttribute("user", name);
14
15 Date createTime = new Date(session.getCreationTime());
16 out.print("Session start time: " + createTime + "<br/><br/>")
17 session.setAttribute("startTime", createTime);
```

Done

Windows Taskbar: ENG IN 10:58 23-02-2022

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