

Instructions:

- This assignment is done as an individual exercise.
 - Understand the user is the person entering the information, not the coder.
 - **Note:** You are responsible for reviewing, complete testing, and final submission.
-

Questions:

Create a new Java Enterprise project for any one of the following given examples. You will resolve any errors if occurred. Configure Apache Tomcat Server as Application Server for the Project.

Example 1:

index.jsp

```
<%@ page contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html>
<head>
<title>JSP - Hello World</title>
</head>
<body>
<h1><%= "Hello World!" %></h1>
<br/>
<a href="hello-servlet">Hello Servlet</a>
</body>
</html>
```

HelloServlet.java

```
import java.io.*;
import
javax.servlet.http
p.*; import
javax.servlet.annotation.*;

@WebServlet(name = "helloServlet",
value = "/hello-servlet") public class
HelloServlet extends HttpServlet {
private String message;
```

```

public void init() {
    message = "Hello World!";
}

    public void doGet(HttpServletRequest request,
        HttpServletResponse response) throws IOException {
        response.setContentType("text/html");

        // Hello
        PrintWriter out =
            response.getWriter();
        out.println("<html><body>");
        out.println("<h1>" + message +
            "</h1>");
        out.println("</body></html>");
    }

public void destroy() {
}
}

```

Example 2:

```

    <form method="post" action="formhandlerservlet">
<table>
    <tr>
        <td>Please enter some text:</td>
        <td>
            <input type="text" name="enteredValue"/>
        </td>
    </tr>
    <tr>
        <td></td>
        <td><input type="submit" value="Submit"></td>
    </tr>
</table>
    </form>

```

Formhandlerservlet.java

```

@WebServlet(name = "formhandlerservlet", value
    = "/formhandlerservlet") public class
    formhandlerservlet extends HttpServlet {

    @Override
        protected void doPost(HttpServletRequest request,

```

```

        HttpServletResponse response) throws ServletException,
        IOException {
    String enteredValue;
    enteredValue = request.getParameter("enteredValue");
    response.setContentType("text/html");
    PrintWriter
    printWriter; try
    {
        printWriter =
        response.getWriter();
        printWriter.println("<p>");
        printWriter.print("You
        entered: ");
        printWriter.print(enteredValu
        e);
        printWriter.print("</p>");
    } catch (IOException e) {
        e.printStackTrace();
    }
}
}

```

Example 3:

```

        <form method="post"
        action="multiplevaluefieldhandlerservlet">
<p>Please enter one or more options.</p>
<table>
    <tr>
        <td><input name="options" type="checkbox"
            value="option1"/> Option 1
        </td>
    </tr>
    <tr>
        <td><input name="options" type="checkbox"
            value="option2"/> Option 2
        </td>
    </tr>
    <tr>
        <td><input name="options" type="checkbox"
            value="option3"/> Option 3
        </td>
    </tr>
    <tr>
        <td><input type="submit" value="Submit"/></td>
    </tr>
</table>
</form>

```

```

    </tr>
</table>
    </form>

```

Multiplevaluefieldhandlerservlet.java

```

@WebServlet(name = "multiplevaluefieldhandlerservlet",
value = "/multiplevaluefieldhandlerservlet")
public class multiplevaluefieldhandlerservlet extends
HttpServlet {

@Override
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException {
String[] selectedOptions =
request.getParameterValues("options");
response.setContentType("text/html");
try {
    PrintWriter printWriter =
        response.getWriter();
    printWriter.println("<p>");
    printWriter.print("The following options were selected:");
    printWriter.println("
<br/>"); if
    (selectedOptions !=
    null) {
        for (String option : selectedOptions)
            { printWriter.print(option);
              printWriter.println("<br/>");
            }
        } else {
            printWriter.println("None");
        }
    printWriter.println("</p>");
} catch (IOException e) {
    e.printStackTrace();
}
}
}

```

Submission:

1. Be sure to save all changes.
2. Zip the ENTIRE project folder with your solution and upload to the Assignment 1 folder to the eConestoga Portal.

Note: You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.