

UNIVERSITI MALAYSIA TERENGGANU

CSM 3023 – WEB BASED APPLICATION DEVELOPMENT (K1)

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

LAB 2

SEMESTER II 2023/2024

Prepared for:

DR. MOHAMAD NOR HASSAN

Prepared by:

MUHAMMAD NOR IQBAL BIN ABDUL RAUF

(S67614)

ACTIVITY 1

```
CIDOCTYPE html>
<!--
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```

Use JSP Scriptlet and JSP Expression in Application

Customer Discount

Customer Code: 123
Quantity: 2
Customer Type:
O Normal Customer Privilege Customer
Calculate Clear

Customer Discount Calculation Result

You're not entitled to a discount ..!

Total amount is RM20

Reflection

1. What you have learnt from this exercise?

I learned how to use Java code in JSP to create dynamic web pages, handle form submissions, and display results based on user input.

- 2. Explain three (3) type of JSP scripting?
 - Scriptlets: Used to embed Java code directly into the HTML page.
 - Expressions: Used to insert the result of a Java expression into the HTML output.
 - Declarations: Used to declare variables, methods, or classes accessible throughout the JSP page.

ACTIVITY 2

Use JSP Sciplet and JSP Expression in application

Currency Conversion

Amount(RM): 1234
Convert to: Pound Sterling V
Calculate
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Use JSP Scriplet and JSP Expression in application

Amount in Ringgit Malaysia: RM1234

Amount in British Pound: 207.05

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Reflection

1. What have you learn from this exercise? create a basic web application using JSP, incorporate JSP scriptlets to handle form submissions and perform calculations, and format output using JSP expressions.

ACTIVITY 3

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
</html>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Using JSP Standard Action</title>
   </head>
   <body>
        <P>Code = <%=request.getParameter("code")%>
        <P>Credit = <%=request.getParameter("credit")%>
   </body>
```

Using JSP:include and jsp:param to display information on JSP page Calling subjectInfo.jsp page

Code = CSF3107 Subject = Web Programming 2 Credit = 3(2+1)

Reflection:

1. What you have learnt from this exercise? How to use JSP Standard Actions like <jsp:include> and <jsp:param> to include content from one JSP file into another and pass parameters to it.

- 2. List TWO (2) other JSP Standard Action Tag.
 - <jsp:forward>: Used to forward the request from one JSP file to another resource (like another JSP, HTML, or servlet).
 - <jsp:useBean>: Used to declare and instantiate JavaBeans components within a JSP page.

ACTIVITY 4

```
9
         Created on : 30 Apr 2024, 2:38:14 am
         </head>
```

Iqbal Rauf mni050403@gmail.com Malaysia CEO

Today is: Tue Apr 30 02:40:55 MYT 2024

Reflection

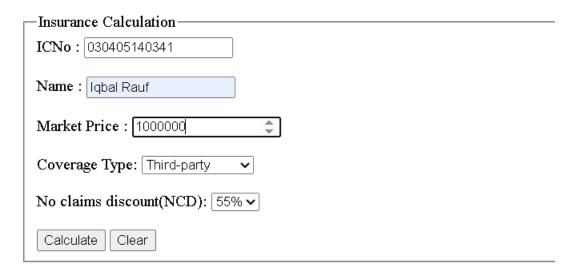
- 1. What you have learnt from this exercise? How to use the <jsp:forward> JSP Standard Action to forward a request from one JSP file to another while passing parameters.
- 2. List TWO(2) More JSP Standard Action Tag.
 - <jsp:useBean>: Instantiates a JavaBean component or retrieves an existing one from the page context or request scope.
 - <jsp:setProperty>: Sets properties on JavaBeans components instantiated using <jsp:useBean>.

ACTIVITY 5

```
<form action="processInsuranceQuo.jsp" onsubmit="return validateForm()">
           <label for="cover">Coverage Type:</label>
               <option value="2">25%</option>
               <option value="3">35%</option>
               <option value="4">55%</option>
           </select><br><br>
           <button type="reset">Clear</button>
       </fieldset>
  </form>
  </body>
  </html>
```

```
: Iqbal Rauf
```

Insurance Quotation



Insurance Quotation Result

IC No: 030405140341

Customer Name: Iqbal Rauf

Market Price: 1000000.0

Coverage Type: Third-party

No Claim Discount (NCD): 55.00000000000001%

Insurance Amount: 449999.9999999994

6% GST: 26999.99999999999

Final Amount (with 6% GST): 476999.9999999994

Reflection

1. What you have learnt from this exercise?

How to create a web form for insurance quotation using HTML and JavaScript for client-side validation. How to process form data in a JSP file (processInsuranceQuo.jsp) to calculate insurance amounts based on user input.

- 2. List all Java features you used in Java Scriptlet.
 - Variable declaration and initialization
 - Parsing string inputs to numeric values (e.g., Double.parseDouble(), Integer.parseInt())
 - Control structures (e.g., switch-case)

- Arithmetic operations
- Outputting dynamic content using <%= %> tags

EXERCISE

```
: Iqbqal Rauf
     <%@ page contentType="text/html;charset=UTF-8" %>
     <%@ page import="java.text.DecimalFormat" %>
     double weight = Double.parseDouble(request.getParameter("weight"));
     DecimalFormat df = new DecimalFormat("#.##");
18
20
         bmiCategory = "underweight";
30 🗀 <head>
31
         <title>BMI Result</title>
32
35 📮
         Your BMI is: <%= bmiFormatted %>
36 E
         You are <%= bmiCategory %>.
     </body>
     </html>
```

BMI Calculator

Enter your weight in kilogram	ms: 70	
Enter your height in meters:	1.7	_
Calculate BML		

Your BMI Result

Your BMI is: 24.22

You are optimal weight.