

CSM3023 WEB BASED APPLICATION DEVELOPMENT (K1)

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

SEMESTER 2 2023/2024

LAB 3 – JSP: Scriplet, Page Directive & Include Directive

Prepared by:

LUTFIL HAZIQ BIN ADNAN(S67911)

Task 1: Passing Data from Main JSP's Page to Other JSP's Page Coding:

Output:

Passing data from main JSP's page to other JSP's page

Member Registration	
Ic No * 030804110369	
Name Lutfil	
Submit Cancel	

Passing data from main JSP's page to other JSP's page

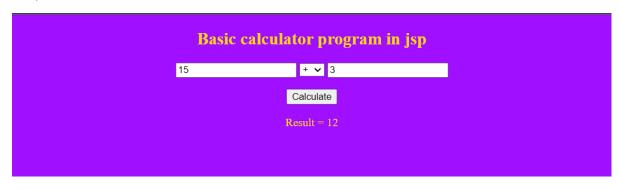
Thank you for registering in this event!	
This is your details;	
Ic No: 030804110369	
Name: Lutfil	

- 1. How do you want to submit specific information from one form to next form? By using post method and assigning field name.
- 2. What happened if the field name you specify in request.getParameter("field_name") in second page is different from the field name you defined in first page?
 The information we intended to refer cannot be referred.

Task 2: Using Mathematics Operations in JSP

Coding:

Output:



- 1. How do you want to submit specific information from one form to next form? By using post method and assigning field name.
- 2. What happened if the field name you specify in request.getParameter("field_name") in second page is different from the field name you defined in first page?
 The information we intended to refer cannot be referred.

Task 4: Perform Calculation of Car Loan

Coding:

]

]

```
<head>
         <title>Loan Calculator MY</title>
         <meta charset="UTF-8">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <body>
         <hl>Perform Car Loan Calculation</hl><br><br>
         <form id="loanFrm" action="calculateLoan.jsp" method="post">
              <fieldset>
                  <legend>Loan Calculation</legend>
                  <label for="amount">Loan Amount*</label>
                  <input type="text" id="amount" name="loan_amount" placeholder="Amount"><br><br>
                  <label for="period">Period</label>
                  <select name = period size = 1>
                     <option value = "3" >3 years
                     <option value = "4" >4 years
                     <option value = "5" >5 years
                     <option value = "6" >6 years
                     <option value = "7" >7 years
                  </select><br><br>
                  <input type="submit" id="btnSubmit" value="Submit"/>
                    <input type="reset" id="btnCancel" value="Cancel"/>
                  </fieldset>
        © 2024-LUTFIL HAZIQ
     </body>
  </html>
  <%@page contentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
 <html>
-]
      <head>
          <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
          <title>JSP Page</title>
          <style>
              p{
                  size: 24px;
                  font-family: Courier New;
                  font-weight: bold;
              1
              h2{
                   color: blue;
                  font-family: Courier New;
              }
          </style>
      </head>
3
      <body>
          <hl>Perform Car Loan Calculation</hl>
3
          <fieldset>
```

```
</head>
   <body>
       <hl>Perform Car Loan Calculation</hl>
       <fieldset>
              String dAmount = request.getParameter("loan_amount");
              double amount = Double.parseDouble(dAmount);
              String dPeriod = request.getParameter("period");
              int period = Integer.parseInt(dPeriod);
              double total = 0;
              if (period > 5) {
                 total = amount * 1.045; //interest rate
              else{
                 total = amount * 1.028;
           <h2>Details of car loan: </h2>
           Loan Request : RM<%=amount%> 
           Period of payment : <%=period%> 
           Total Loan (+ interest): RM<%=total%> 
       </fieldset>
         © 2024-LUTFIL HAZIO
</html>
```

Perform Car Loan Calculation

Loan Calculation—	_
Loan Amount* 50000	
Period 7 years V	
Submit Cancel	

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Perform Car Loan Calculation

```
Details of car loan:

Loan Request: RM50000.0

Period of payment: 7

Total Loan (+ interest): RM52250.0
```

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- How you want to retrieve data from previous page?
 By using request.getParameter method.
- 2. Where the construction of logic occur for calculating Total Loan (+ interest)? After we received all the required datas from previous page.

Task 5: Using JSP Page Directive to Call Java API

Coding:

```
<html>
       <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
       <title>Use Java ArrayList</title>
       <h1>Use JSP Page Directive</h1>
           //Create ArrayList object...
           ArrayList<String> studentList = new ArrayList<String>();
           //Store student name..
           studentList.add(0, "Mohamad Azam");
           studentList.add(1, "Peter Chong");
           studentList.add(2, "Rahimah Mansor");
           studentList.add(3, "Sri Devi");
           studentList.add(4, "Ng Hue Wen");
           studentList.add(5, "S. Nagarajan");
           //Display the number of records..
           out.println("The number of records in ArrayList are " +
                      studentList.size() + "");
           for (int i=0; i < studentList.size(); i++ ){</pre>
               out.println("Record " + (i+1) + " is " + studentList.get(i) + "");
   </body>
   </br>
   <footer>&copy2024-LUTFIL HAZIQ</footer>
</html>
```

Output:

Use JSP Page Directive

The number of records in ArrayList are 6

Record 1 is Mohamad Azam

Record 2 is Peter Chong

Record 3 is Rahimah Mansor

Record 4 is Sri Devi

Record 5 is Ng Hue Wen

Record 6 is S. Nagarajan

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- 1. What you have learnt from this exercise?
 I have learnt how to import JSP page directive inside my JSP page.
- 2. Write a sample syntax how you want to use java Math object in JSP?
 <@page import="java.math.*"%>
- 3. List and write a sample syntax for THREE (3) of JSP page directive
- <%@page import="java.util.Scanner"%>
- <%@page import="java.util.math.pow"%>
- <%@page import="java.util.*"%>

Task 6: Use JSP Include directive for JSP Page

Coding:

```
<%--
    Document : headerPage
    Created on : 20 Apr 2024, 11:15:09 pm
Author : LUTFIL
--8>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    </head>
    <style>
            h1{
                padding: 40px;
                background-color: #FFBF00;
               font-family: Courier New;
            }
       </style>
    <body>
    <center>
      <h1>ABC Sdn Bhd</h1>
    </center>
    </body>
</html>
<%--
   Document : footerPage
   Created on : 20 Apr 2024, 11:15:22 pm
   Author : LUTFIL
--용>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
   </head>
   <stvle>
          h5{
              padding: 20px;
              background-color: #FFBF00;
              font-family: Courier New;
          }
      </style>
   <body>
  <h5>&copy2024-LUTFIL HAZIO </h5>
  </center>
</html>
```

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
   <title>Task 6</title>
    <style>
      p {
           color: red;
   </style>
</head>
<body>
<%@ include file="headerPage.jsp" %>
<fieldset>
    >
       Java Server Page (JSP) is a technology for controlling the content
       or appearance of Web pages through the use of servlets, small
       programs that are specified in the Web page and run on the Web server
       to modify the Web page before it is sent to the user who requested it.
    </fieldset>
<%@ include file="footerPage.jsp" %>
</body>
</html>
```

Output:

ABC Sdn Bhd

Lutfil Haziq (lutfil03haziq@gr

Java Server Page (JSP) is a technology for controlling the content or appearance of Web pages through the use of servlets, small programs that are specified in the Web page and run on the Web server to modify the Web page before it is sent to the user who requested it.

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- 1. What you have learnt from this exercise?
 I have learnt how to include a JSP page inside another JSP page.
- 2. Write a syntax how you want to include common.html file that located at

a directory known as master.

<%@ include file="master/common.html" %>

Exercise

1.

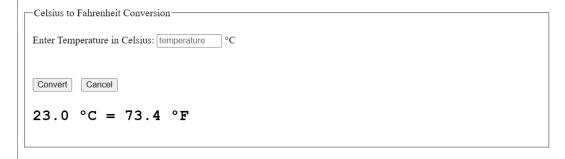
Coding:

Output:

Calculate Celsius to Fahrenheit



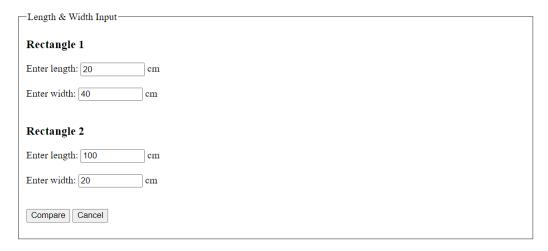
Calculate Celsius to Fahrenheit



Coding:

Output:

Comparing 2 Rectangle Areas



Rectangle Area Comparison Result

Area of Rectangle 1: 800.00 square cm Area of Rectangle 2: 2000.00 square cm

Rectangle 2 has a greater area than Rectangle 1.