

CSM3023 WEB BASED APPLICATION DEVELOPMENT (K1)

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

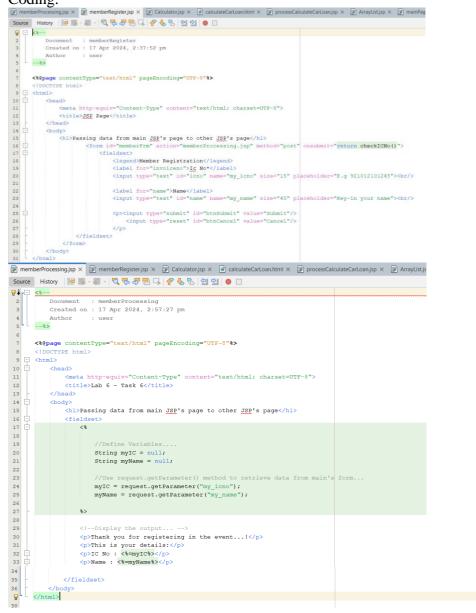
SEMESTER 2 2023/2024

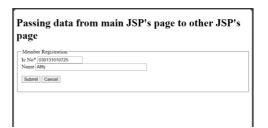
LAB 3 – JSP: Scriplet, Page Directive & Include Directive

Prepared by:

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





Passing data from main JSP's page to other JSP's page		
Thank you for registering in the event! This is your details:		
IC No : 030131010725		
Name : Afify		

Reflection

- 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:



Reflection

- 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:

```
| CalculateCartoanhum| X | ProcessCalculateCartoanjsp X | ParayUstjsp X | ParayPagejsp X | PackerPagejsp X | PackerPagej
```

```
processCalculateCarLoan.jsp × proces
₩ = <%--
                                    Document : processCalculateCarLoan
Created on : 17 May 2024, 9:16:31 pm
Author : user
                       <%@page contentType="text/html" pageEncoding="UTF-8"%>
     11
12
13
                                                     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
                                                <title>JSP Page</title>
                                                                                 size: 24px;
                                                                                  font-family: Courier New;
font-weight: bold;
                               }
h2{
                                                                                color: blue;
font-family: Courier New;
   23
26
                                    <body>
                                     <h1>Perform Car Loan Calculation</h1>
<fieldset>
29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
                                            string dAmount - ...
double amount = Double.parseDouble(wa...

string dPeriod = request.getParameter("period");
int period = Integer.parseInt(dPeriod);
                                                                 if (period > 5) {
                                                                                             total = amount * 1.045; //interest rate
                                                              <h2>Details of car loan: </h2
                                                  © 2024-Arif Afify
                   </html>
```

Perform Car Loan Calculation



```
Perform Car Loan Calculation

Details of car loan:

Loan Request: RM200.0

Period of payment: 4

Total Loan (+ interest): RM205.6

© 2024-Arif Afify
```

Reflection

- 1. 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:

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

Reflection

- 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 : 17 May 2024, 9:30:40 pm
Author : user
                                  <%@page contentType="text/html" pageEncoding="UTF-8"%>
                          c/head>
c/style>
hf
padding: 40px;
background-color: #FFBF00 ;
font-family: Courier New;

c/style>
cbody>
ccenter>
c/landar Edn Rhd</hl>
c/center>
                  Source History | 🐼 🎼 - 🐺 - | 🔼 👨 😓 🖫 | 😂 🛂 | 💿 🗆
                                  <*@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
                                         <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
                  ₽‡ □ <%--
                    Created on : 17 May 2024, 9:29:13 pm
contentType="te CTYPE html>
Atml>

(head)
(meta http-equiv="Cont (title)Task 6</title)
(style)

p ( color: red;

for chead)

//style>
//st
                                     <%@page contentType="text/html" pageEncoding="UTF-8"%>
                                                                                       quiv="Content-Type" content="text/html; charset=UTF-8">
                                      <%0 include file="headerPage.jsp" %>
                                                 Java Server Page (<u>JSP</u>) is a technology for controlling the content or appearance of Web pages through the use of <u>servlets</u>, 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>
```



- 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:

```
cepsupe contentType="text/html" pageEncoding="UTF-8"%>
c(ICCCTYPE html)

chead)
chead)
chead)
cf/bead/
cf/
                                                                                       <%%page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
```

Output:

Calculate Celsius to Fahrenheit

١	Celsius to Fahrenheit Conversion
	Enter Temperature in Celsius: [44 °C
	Convert Cancel

Calculate Celsius to Fahrenheit

Celsius to Fahrenheit	arenheit Conversion	
Enter Temperature in	ature in Celsius: [temperature] °C	
Convert	ancel	
44.0 °C =	C = 111.2 °F	

Coding:

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
                                         // Compare areas
string result;
if (areal > area2) {
    result = "Rectangle 1 has a greater area than Rectangle 2.";
    else if (areal < area2) {
        result = "Rectangle 2 has a greater area than Rectangle 1.";
        else (
            result = "Both rectangles have the same area.";
    }

%)
chi)Rectangle Area Comparison Result</hi>
    cp>Area of Rectangle 1: <%= String.format("%.2f", area1)    square cm</p>
    cp>Area of Rectangle 2: <%= String.format("%.2f", area2)    square cm</p>
    cp>&result %>
    </body>
    </hd>
    </br>
    </br>

Document : rectangle
Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Author : ACER

Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Created on : 20 Apr 2024, 11:37:03 pm
Author : ACER

Created on : ACER

C
                                      ch3>Rectangle 2</h3>
<label for="12">Enter length: </label>
<input type="text" id="12" name="12" size="10" placeholder="length 2"> cmcbr/>cbr/>
<label for="w2">Enter length: 2"> cmcbr/>cbr/>
clabel for="w2" size="vidth: </label>
<input type="text" id="w2" name="w2" size="10" placeholder="width 2"> cmcbr/>cbr/>
```

Comparing 2 Rectangle Areas

Length & Width Input		
Rectangle 1		
Enter length: 40 cm		
Enter width: 20 cm		
Rectangle 2		
Enter length: 10 cm		
Enter width: 20 cm		
Compare Cancel		

Rectangle Area Comparison Result

Area of Rectangle 1: 800.00 square cm Area of Rectangle 2: 200.00 square cm Rectangle 1 has a greater area than Rectangle 2.