



FACULTY OF COMPUTER SCIENCE AND MATHEMATICS

CSM3023 (K1)

WEB BASED APPLICATION DEVELOPMENT

LAB 4 : SCRIPTLET, EXPRESSION & STANDARD ACTION

Prepared for:

DR MOHAMAD NOR HASSAN

SIR MOHD ARIZAL SHAMSUL BIN MAT RIFIN

Prepared by:

NUR ADILAH AINAA BINTI MOHD NOR

(S67241)

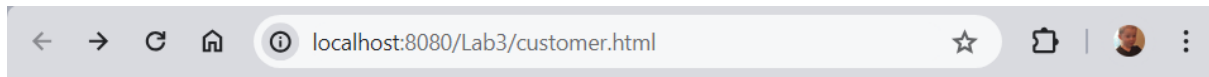
GitHub Link:

TASK 1 : Using JSP Scripting

Reflection:

1. What you have learnt from this exercise?
 - I learnt how to use JSP scriptlet and expression to build the payment process
2. Explain 3 type of JSP scripting
 - a. JSP Scriptlet
 - `<% source code %>`
 - to insert java code insides the jsp files.
 - b. JSP Directive
 - `<%@ source code%>`
 - As container guidance and instruction to manage certain JSP processing as instructions to the container
 - c. JSP Declaration
 - `<%! Source code %>`
 - Used to declare fields or methods

Output:



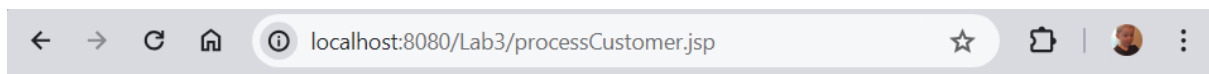
Perform Car Loan Calculation

Customer Discount

Customer Code

Quantity:

Customer Type ☒ Normal Customer ☐ Privilege Customer



Use JSP Scriptlet and JSP Expression in application

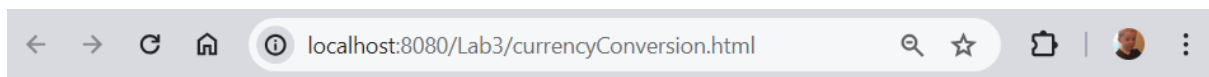
You're entitle 10%
Total amount is RM909.0

TASK 2 : Using JSP (Scripting, Declaration and Expression

Reflections:

1. What you have learnt from this exercise?
 - I learnt how to use JSP Declaration tag, scriplet and expression to build currency converter

Outputs:

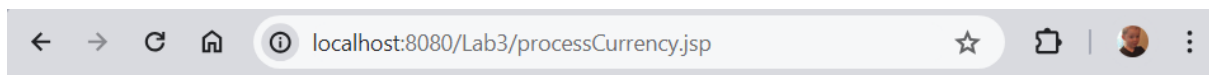


Use JSP Declaration tag, JSP scriplet and JSP Expression in application

Currency Conversion

Amount(in RM)
Convert to

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Use JSP Declaration tag, JSP scriplet and JSP Expression in application

Amount in Ringgit Malaysia is RM1000

Amount in Euro is RM223.71

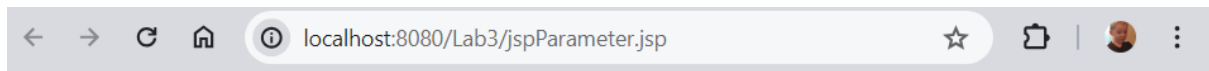
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TASK 3 : Using JSP Standard Action (Include and Param)

Reflection :

1. What you have learnt from this exercise?
 - I learnt how to use `<jsp:include>` and `<jsp:param>` to display information on JSP page
2. List two (2) other JSP Standard Action Tag
 - `jsp:setProperty`
 - `jsp:getProperty`

Output :



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

Calling subjectInfo.jsp page

Code = CSF3107

Subject = Web Programming 2

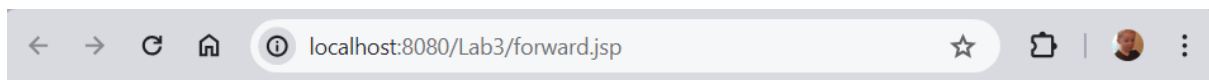
Credit = 3(2+1)

TASK 4 : Using JSP Standard Action (Forward)

Reflection :

1. What you have learnt from this exercise?
 - I learnt how to use `<jsp:forward>` tag
2. List two (2) other JSP Standard Action Tag
 - Jsp:plugin
 - Jsp:body

Output :



Adilah Ainaa
adilahainaa@gmail.com
Malaysian
Student

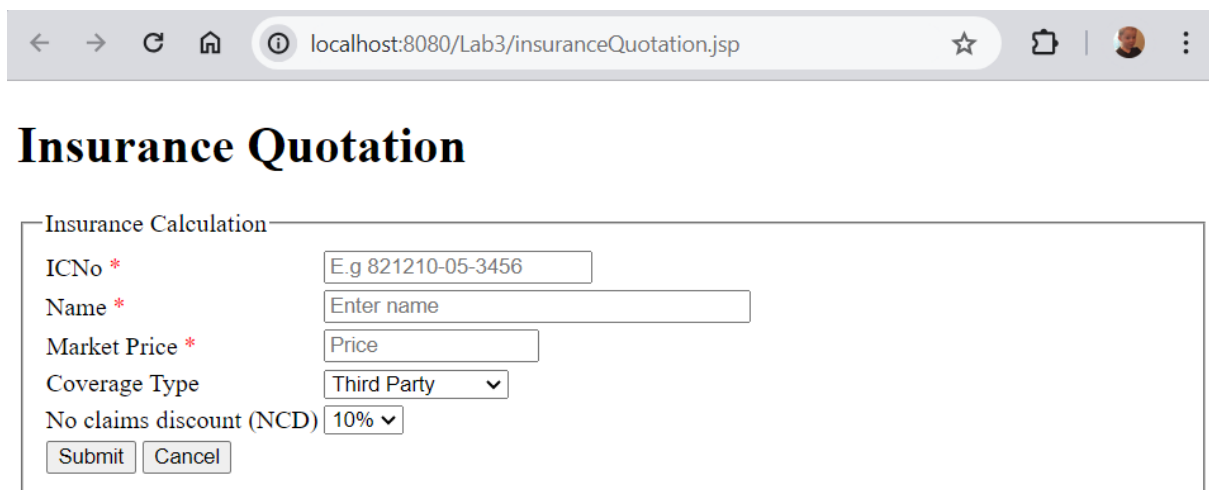
Today is: Wed May 01 23:12:42 MYT 2024

TASK 5 : Using Java Scriptlet To Construct Business Logic

Reflection :

1. What you have learnt from this exercise?
 - I learnt how to use jsp scriptlet to perform business logic
2. List all Java features you used in Java Scriptlet
 - Client-side validation
 - OOP support
 - Light weight scripting language
 - Dynamic typing
 - Platform independent

Output :



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Lab3/insuranceQuotation.jsp'. The page title is 'Insurance Quotation'. The form is titled 'Insurance Calculation' and contains the following fields and controls:

- ICNo * : Text input with placeholder 'E.g 821210-05-3456'
- Name * : Text input with placeholder 'Enter name'
- Market Price * : Text input with placeholder 'Price'
- Coverage Type : Dropdown menu with 'Third Party' selected
- No claims discount (NCD) : Dropdown menu with '10%' selected
- Submit and Cancel buttons

Details of Insurance Quotation

IC No : 020806-01-0530

Customer Name : Adilah Ainaa

Market Price : 40000

Coverage Type: Comprehensive

No claim discount (NCD) : 55%

Insurance amount : 720.00

6% GST : 57.60

Final amount (with 6% GST) : 777.60

EXERCISE :

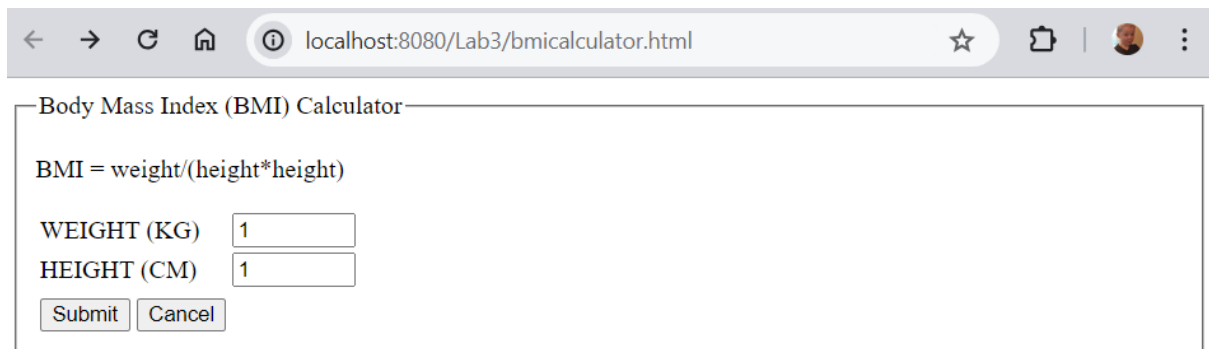
Question :

Write a simple application to calculate and display a person's body mass index (BMI). The BMI is often used to determine whether a person is overweight or underweight for his or her height. A person's BMI is calculated with the following formula: List two (2) other JSP Standard Action Tag

$$\text{BMI} = \text{weight} / \text{height} * \text{height}$$

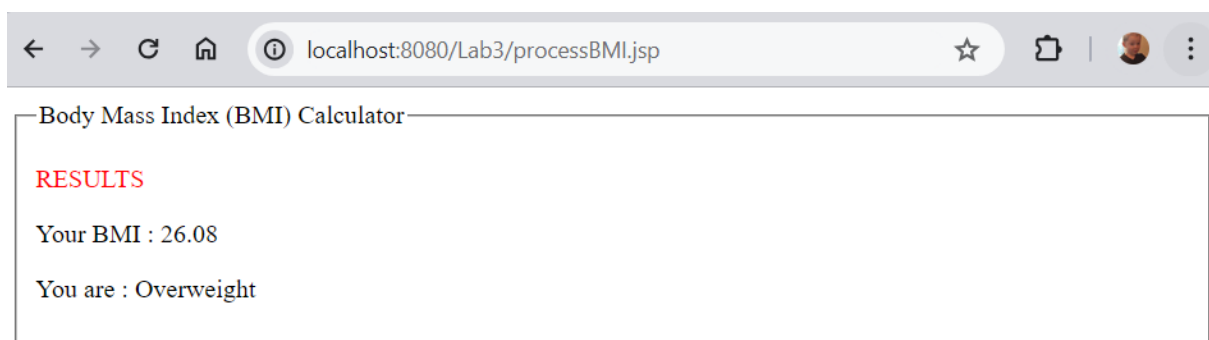
where weight is measured in kilogram and height is measured in meter. User should enter his or her weight and height and then display the user's BMI. The program should also display a message indicating whether the person has optimal weight, is underweight, or is overweight. A person's weight is considered to be optimal if his or her BMI is between 18.5 and 25. If the BMI is less than 18.5, the person is considered to be underweight. If the BMI value is greater than 25, the person is considered to be overweight.

Output :



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Lab3/bmicalculator.html'. The page content is titled 'Body Mass Index (BMI) Calculator'. It displays the formula 'BMI = weight/(height*height)'. Below the formula, there are two input fields: 'WEIGHT (KG)' with the value '1' and 'HEIGHT (CM)' with the value '1'. At the bottom of the form, there are two buttons: 'Submit' and 'Cancel'.

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The screenshot shows a web browser window with the address bar displaying 'localhost:8080/Lab3/processBMI.jsp'. The page content is titled 'Body Mass Index (BMI) Calculator'. It displays the word 'RESULTS' in red. Below 'RESULTS', it shows 'Your BMI : 26.08' and 'You are : Overweight'.

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