

# UNIVERSITY MALAYSIA TERENGGANU FACULTY OF COMPUTER SCIENCE AND MATHEMATICS WEB BASED APPLICATION DEVELOPMENT

CSM3023 (K1)

Lab Report 4

Prepared by:

NURHAZIRAH BINTI ABDULLAH (S68144)

Prepared for:

ENCIK MOHD ARIZAL SHAMSIL MAT RIFIN

[BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)]

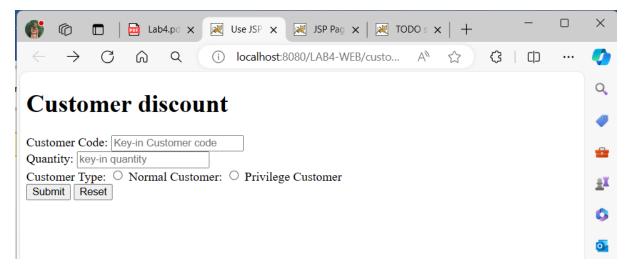
SEMESTER II 2023/2024

### <u>Task1</u> Using jsp scripting

### HTML file name customer.jsp

```
7 - <html>
  8 🖨
                           <head>
  9
                                     <title>TODO supply a title</title>
10
                                     <meta charset="UTF-8">
                                    <meta name="viewport" content="width=device-width, initial-scale=1.0">
11
                           </head>
13
14
                          <body>
15
                                     <h2 style= "color:purple; font-family: Arial">Customer discount</h2>
16
17
                                      <form method ="get" name ="fl" action="processCustomer.jsp">
18 🚊
19
20
21
                                                                       <label>Customer Code</label>
                                                                             
23
                                                                         <input type="text" id="cust_no" name="cust_no" placeholder="Key-in-customer code">
24
                                                                         <br><br>>
25
26
                                                                        <label>Quantity</label>
28
                                                                       \label{lem:hambsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbsp:anbs
29
                                                                                 <input id="quantity" name="quantity" placeholder="Key-in quantity">
30
                                                                         <br><br>>
31
32
                                                                         <label>Customer Type</label>
33
                                                                          
                                                                                 <input type="radio" id="normal" name="cust type" value="l"/>
34
35
                                                                                  <label for="normal">Normal Customer</label>
36
37
                                                                                 <input type="radio" id="privilege" name="cust_type" value="2"/>
                                                                                  <label for="privilage">Privilege Customer</label>
39
40
41
                                                                                 <br><br><br><br>>
                                                 <input type="submit" value="Submit"/>
43
                                                <input type="reset" value="Cancel"/>
44
45
                                     </form>
46
47
                           </body>
48
49
                </html>
50
```

Run the customer.jsp file, get view like this.



User able to key in Customer code, quantity and choose customer type.

Next create processCustomer.jsp.

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
- <html>
阜
      <head>
          <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
          <title>JSP Page</title>
      </head>
中
      <body>
           <hl>Use JSP Scriplet and JSP Expression in application</hl>
               <form method ="get" name ="fl">
白
              final int price = 10;
                  String cust_nol = request.getParameter("cust_no");
                 int quantity1 = Integer.parseInt(request.getParameter("quantity"));
                 String cust_type1 = request.getParameter("cust_type");
                  if (cust_typel.equals("1") && quantityl > 100) {
中
                      out.print("You're entitle " + "10%"); %> <br> <%
                         out.print("Total amount is RM" + quantity1 * price * 0.9);
              } else if (cust_typel.equals("2") && quantityl > 100) {
                  out.print("You're entitle " + "25%");%> <br> <%
                    out.print("Total amount is RM" + quantity1 * price * 0.75);
白
                 out.print("You're not entitle discount...!"); %><br><%
                      out.print("Total amount is RM" + quantity1 * price);
      </body>
   </html>
```

User can run the customer.jsp again by key in data complete.

If user is a normal customer.



### The output is

You're not entitled to any discount. Total amount is RM 10

If user is a privilege customer:



The output:

### You're not entitled to any discount. Total amount is RM 30

1. What you have learnt from this exercise?

Know how to use JSP scriplet and JSP application.

2. Explain three (3) type of JSP scripting?

JSP Expressions: It is a small java code which you can include into a JSP page. The syntax is "<%= some java code %>"

JSP Scriptlet: The syntax for a scriptlet is "<% some java code %>". You can add 1 to many lines of Java code in here.

JSP Declaration: The syntax for declaration is "<%! Variable or method declaration %>", in here you can declare a variable or a method for use later in the code.

<u>Task 2</u>: Using JSP (Scripting, Declaration and Expression)

### currencyConversion.jsp

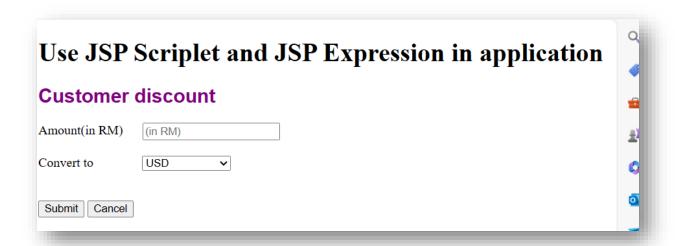
```
- <html>
ㅁ
           <head>
                 <title>TODO supply a title</title>
                 <meta charset="UTF-8">
                 <meta name="viewport" content="width=device-width. initial-scale=1.0">
           </head>
\Box
           <body>
                 <hl>Use \overline{\text{JSP}} Scriplet and \overline{\text{JSP}} Expression in application</hl>
                 <h2 style= "color:purple; font-family: Arial">Customer discount</h2>
                  <form method ="POST" action="processCurrency.jsp">
                          <label>Amount(in RM)</label>
                                              
                                       <input type="text" id="rm" name="rm" placeholder="(in RM)">
                                       <br><br><br>>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               &n
                                        <select name="currency" id="currency">
                                             <option value="1">USD</option>
                                              <option value="2">Pound Sterling</option>
                                              <option value="3">Euro</option>
                                       </select>
                                             <input type="submit" value="Submit"/>
                        <input type="reset" value="Cancel">
           </body>
    </html>
```

### processCurrencyConversion.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
- <html>
ψ̈́
          <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
          <title>JSP Page</title>
      </head>
\dot{\Box}
      <body>
           <hl>Use JSP Declaration tag , JSP Scriplet and JSP Expression in application</hl>
           <!-- Untuk declare currencyChange/currencyType -->
\dot{\Box}
               double currencyChange;
              String currencyType;
           <!-- Get parameter from currency Conversion -->
白
           <%
               double amountRM = Double.parseDouble(request.getParameter("rm"));
               String currency = request.getParameter("currency");
               currencyChange = calculateRate(currency, amountRM);
           %>
白
           <%!
                   final double USD = 3.92;
                   final double STG = 5.96;
                   final double EURO = 4.47;
```

```
private double calculateRate(String currency, double amount) {
               double currencyChange = 0.00f;
               if (currency.equals("1")) {
                  currencyChange = (double)(amount / USD);
                  currencyType = "USD";
               if (currency.equals("2")) {
                  currencyChange = (double) (amount / STG);
               currencyType = "STG";
               if (currency.equals("3")) {
                  currencyChange = (double) (amount / EURO);
               currencyType= "EURO";
              return currencyChange;
       %>
        Use JSP Declaration tag , JSP Scriplet and JSP Expression in application
            Amount in Ringgit Malaysia is <%=amountRM%>
           Amount is <%=currencyChange%>
   </body>
</html>
```

The output:



# Use JSP Declaration tag, JSP Scriplet and JSP Expression in application

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

Amount in Ringgit Malaysia is 2000.0

Amount is 510.2040816326531



# Use JSP Declaration tag, JSP Scriplet and JSP Expression in application

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

Amount in Ringgit Malaysia is 2000.0

Amount is 447.427293064877

Task 3: Using JSP Standard Acction (Include and Param)

### jspParam.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
  <!DOCTYPE html>
- <html>
          <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
          <title>JSP Page</title>
      </head>
中
          <hl>Using jsp : include and jsp : param to display information on JSP page</hl>
          <%
              String sCode = "CSF3107";
              String sSubject="Web Programming 2";
              String sCredit="3(2+1)";
                <jsp:include page="subjectInfo.jsp" flush="true">
                        <jsp:param name="code" value="<%=sCode%>"/>
                        <jsp:param name="subject" value="<%=sSubject%>"/>
                        <jsp:param name="credit" value="<%=sCredit%>"/>
                </jsp:include>
       </body>
   </html>
```

### subjectInfo.jsp

### List TWO (2) other JSP Standard Action Tag.

jsp:include. It also used to insert a jsp file into another file, just like include directive jsp:param. This is child object of the plugin object described above

### Task 4: Using JSP Standard Acction (Forward)

### forward.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
</ntml>

<pre
```

### forwardInfo.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
   <!DOCTYPE html>
- <html> <he
      <head>
          <title> Using JSP Standard Action(forward) </title>
      </head>
      <body>
          <h2> Using jsp : forward to display user info . </h2>
          <jsp:forward page = "forwardInfo.jsp">
              <jsp:param name="U Name" value="Fouad Abdulameer"/>
              <jsp:param name="Email" value="foudaug@gmail.com"/>
              <jsp:param name="Nationality" value="Iraqi"/>
              <jsp:param name="Background" value="Developer"/>
          </jsp:forward>
      </body>
   </html>
```

### The output:

# Fouad Abdulameer foudaug@gmail.com Iraqi Developer

Today is:Mon Apr 29 12:05:44 SGT 2024

List TWO(2) More JSP Standard Action Tag.

Jsp:forward and jsp:param

Task 5: Use java Scriplet to construct business logic.

### insuranceQuotation.jsp

```
<html>
                         <head>
                                                  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
                                                    <form action="processInsuranceQuo.jsp" method="GET">
                                                                                <hl><b>Insurance Quotation<b></hl>
                                                                                                                                                                                        <legend>Insurance Calculation</legend>
                                                                                                                                                                                     <br><br><br>>
                                                                                                                                                                                      \verb§§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbsp:§anbs
                                                                                                                                                                                      <input type="text" id="ic_no" name="ic_no" placeholder="E.g.821210-05-3478">
                                                                                                                                                                                     <br><br>>
                                                                                                                                                                                      \verb§§ anbsp: § anbsp:
                                                                                                                                                                                      <input id="name" name="name" placeholder="Enter name">
                                                                                                                                                                                        <label>Market Price</label>
                                                                                                                                                                                        \verb§§ anbsp; § anbsp;
                                                                                                                                                                                      <input id="mrktprice" name="mrktprice" placeholder="Price">
                                                                                                                                                                                        <label>Coverage Type</label>
                                                                                                                                                                                      \verb§§ anbsp; §§ anbsp; anbsp; §§ anbsp; §§ anbsp; anbsp
                                                                                                                                                                                      <option value = "2" > Comprehensive </option>
                                                                                                                                                                                        </select>
                                                                                     </select>
                                                                                     <label>No claims discount <br > (NCD) </label>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               &n
                                                                                     <select name ="ncd" id ="ncd">
                                                                                                                 <option value = "10" > 10% </option>
                                                                                                                 <option value = "25" > 25% </option>
                                                                                                                   <option value = "35" > 35% </option>
                                                                                                                   <option value = "55" > 55% </option>
                                                                                       </select>
                                                                                                                   <input type="submit" id="btnSubmit" value="Submit"/>
                                                                                                                   <input type="reset" id="btnCancel" value="Cancel"/>
                                                                                      &copy2016-Mohamad Nor
                                                                                    <br><br>>
                                                        </fieldset>
                                                        </form>
                                                        </body>
                                                        </html>
```

# **Insurance Quotation**

Insurance Calculation	
ICNo	E.g.821210-05-3478
Name	Enter name
Market Price	Price
Coverage Type	Third Party V
No claims discount (NCD)	10% 🗸
Submit Cancel	
©2016-Mohamad Nor	

### process In surance Quo. jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
 <!DOCTYPE html>
] <html>
         <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
     <body>
     <field>
         <legend>Details of Insurance Calculation</legend>
          <%! //Declare variable @ storage 9 kotak - JAVAvariable(benda baru) //</pre>
              double finAmount;
             double insAmount;
             double gst;
             String Jevgtyp;
         <% //request.getParameter(guna yg kat HTML)</pre>
              String ic_no = request.getParameter("ic_no");
             String name = request.getParameter("name");
             int mrktprice = Integer.parseInt(request.getParameter("mrktprice"));
             String cvgtyp = request.getParameter("cvgtyp");
             String ncd = request.getParameter("ncd");
             insAmount = caltInsAmount(cvgtyp, mrktprice, ncd);
```

```
<%! //Method/jalan kira //calculate
   private double caltInsAmount(String m cvgtyp, int m mrktprice, String m ncd) {</pre>
        double m_insAmount = 0.0f;
if (m_cvgtyp.equals("1")) {
        Jcvgtyp = "Third Party";
        if (m_ncd.equals("55")) {
                m_insAmount = (0.012 * m_mrktprice);
            if (m_ncd.equals("35")) {
                m_insAmount = (0.018 * m_mrktprice);
            if (m_ncd.equals("25")) {
                m_insAmount = (0.025 * m_mrktprice);
            if (m_ncd.equals("10")) {
               m_insAmount = (0.033 * m_mrktprice);
        if (m cvgtyp.equals("2")) {
            Jcvgtyp = "Comprehensive";
            if (m_ncd.equals("55")) {
               m_insAmount = (0.018 * m_mrktprice);
            if (m_ncd.equals("35")) {
                m_insAmount = (0.024 * m_mrktprice);
            if (m_ncd.equals("25")) {
                m_insAmount = (0.03 * m_mrktprice);
            if (m_ncd.equals("10")) {
               m_insAmount = (0.38 * m_mrktprice);
```

```
gst = (m_insAmount * 0.06);
               finAmount = gst + m_insAmount;
              return m_insAmount;
         IC No :<%=ic_no%>
           Customer Name:<%=name%>
1
           Market Price:<%=mrktprice%>
           Coverage Type:<%=Jcvgtyp%>
           No claim discount(NCD): <%=ncd%>
           Insurance amount:<%=insAmount%>
           6 % GST:<%=gst%>
           Final amount(with 6% GST):<%=finAmount%>
    </field>
 </body>
  &copy2016-Mohamad Nor
· </html>
```

### The output:

# **Insurance Quotation**

Insurance Calculation		
ICNo	990503-09-5120	
Name	Atiqah	
Market Price	40000 ×	
Coverage Type	Third Party	
No claims discount		
(NCD)	35% 🗸	
Submit Cancel		
9204 C M 1 1 N		
©2016-Mohamad Nor		

Details of Insurance Calculation

IC No :990503-09-5120

Customer Name:Atiqah

Market Price:40000

Coverage Type:Third Party

No claim discount(NCD): 35

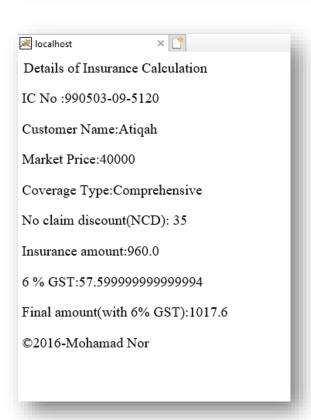
Insurance amount:720.0

6 % GST:43.19999999999999

Final amount(with 6% GST):763.2

©2016-Mohamad Nor

Insurance Quotation		
Insurance Calculation		
ICNo	990503-09-5120	
Name	Atiqah	
Market Price	40000	
Coverage Type	Comprehensive 🗸	
No claims discount (NCD)	35% ✔	
Submit Cancel		
©2016-Mohamad Nor	r	



#### Exercise:

### massIndex.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
       <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
   </head>
   <body>
       <hl>Determine person overweight / underweight</hl>
       <h2 style= "color:purple; font-family: Arial">Caculate index body mass (BMI)</h2>
       <form action="processMassIndex.jsp"method ="POST">
          <label>Weight</label>
             
          <input type="text" size=" 10" name="weight" placeholder="in Kilogram">
          <label>Height</label>
                  
           <input type="text" size="10" name="height" placeholder="in Centimeter">
           <br><br>>
           <input type="submit" value="Submit"/>
           <input type="reset" value="Cancel">
           </body>
           </html>
```

```
 <html>
]
         <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
         <title>JSP Page</title>
     </head>
]
     <body>
         <h1>Result mass index BMI</h1>
]
         <%!
             double caltBMI;
             float BMI;
             String resultBMI;
         %>
]
         <%
             int weight = Integer.parseInt(request.getParameter("weight"));
             int height = Integer.parseInt(request.getParameter("height"));
             //Multiplication by 100 100)
             BMI =(float)(100*100* weight)/(height*height);
             caltBMI = calculateBMI(BMI);
         <%!
                        private double calculateBMI (double BMI) {
                 if( (BMI > 18.5) && (BMI < 25) ){
                    resultBMI = ("Your weight considered optimal");
                 } else if ((BMI < 18.5)) {
                     resultBMI = ("Your weight is underweight");
                 } else {
                     resultBMI = ("Your weight is overweight");
                return 0;
            }
        Your weight :<%=weight%>
         Your height :<%=height%>
          Your BMI :<%=BMI%>
          Status BMI: <%=resultBMI%>
    </body>
 </html>
```

# Determine person overweight / underweight

### Caculate index body mass (BMI)

Weight	in Kilogram
Height	in Centimeter
Submit	Cancel
Weight	40
Height	160 ×
Submit	Cancel

## **Result mass index BMI**

Your weight :40

Your height :160

Your BMI :15.625

Status BMI:Your weight is underweight

### Caculate index body mass (BMI)

Weight	60
Height	160
Submit	Cancel

Your weight :60

Your height :160

Your BMI :23.4375

Status BMI:Your weight considered optimal

## Caculate index body mass (BMI)

Weight	80
Height	160
Submit	Cancel

Your weight:80

Your height :160

Your BMI :31.25

Status BMI:Your weight is overweight

### **Java Scriplet features:**

```
1.
<%!
  double caltBMI;
  float BMI;
  String resultBMI;
%>
2.
int weight = Integer.parseInt(request.getParameter("weight"));
int height = Integer.parseInt(request.getParameter("height"));
BMI = (float)(100 * 100 * weight) / (height * height);
3.
if ((BMI > 18.5) && (BMI < 25)) {
  resultBMI = ("Your weight considered optimal");
\} else if ((BMI < 18.5)) {
  resultBMI = ("Your weight is underweight");
} else {
  resultBMI = ("Your weight is overweight");
}
```

4.

Your BMI :<%=BMI%>

Status BMI:<%=resultBMI%>