

Universiti Malaysia Terengganu

Faculty of Computer Sciences and Mathematics

Web Based Application Development CSM3023

Lab Report 5

Prepared for:

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Bachelor of Computer Science (Mobile Computing) with Honors

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Task 1: Using Scriplet to Access a Simple JavaBeans

- Objective: Use Java Scriptlet to access JavaBeans.
- Code:
 - Message.java

```
package com.mycompany.lab5;

/**

* @author LUTFIL HAZIQ BIN ADNAN

*/
public class Message {

   private String msg;

   public Message() {
      }

   public Message(String msg) {
       this.msg = msg;
   }

   public String getMsg() {
      return msg;
   }

   public void setMsg(String msg) {
      this.msg = msg;
   }
}
```

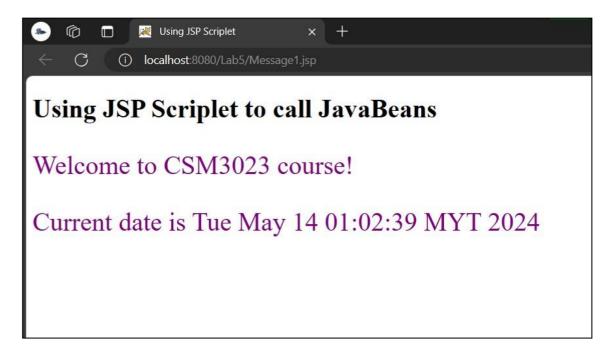
o Message1.jsp

```
c%--
Document : Message1
    Created on : 8 May 2024, 2:31:41 pm
    Author : LUTFIL HAZIQ BIN ADNAN --%>

c%@page contentType="text/html" pageEncoding="UTF-8"%>
c%@page info="Using JSP Standard Action to call JavaBeans" %>
c%@page import="java.util.Date, com.mycompany.lab5.Message" %>
c!DOCTYPE html>
chtml>
chead>
    cmeta http-equiv="Content-Type" content="text/html;
charset=UTF-8">
    ctitle>Using JSP Scriplet</title>
```

```
<style>
           p {
               font-size: 2rem;
               color: purple;
       </style>
   </head>
   <body>
       <h1>Using JSP Scriplet to call JavaBeans</h1>
       <%
           //Create an object
           Message objMsg = new Message();
           //Assign value
           objMsg.setMsg("Welcome to CSM3023 course!");
           //Display value
           out.println("" + objMsg.getMsg() + "");
           //Add date
           out.println("Current date is " + new Date() +
"");
   </body>
</html>
```

Output:



- Reflection:
 - O What you have learnt from this exercise?

In JSP, JavaBeans can be called using Standard Actions like <jsp:useBean> and <jsp:setProperty>, which keep Java code out of JSP files, enhancing readability and maintainability. In contrast, JSP scriplets embed Java code directly using <% %>, making the code harder to maintain and cluttered. Using JSTL tags with JavaBeans is preferred for cleaner and more maintainable code.

Task 2: Problem Solving using JavaBeans

- Objective: Use JavaBeans in Java Scriptlet.
- Code:
 - o Register.java

```
package com.mycompany.lab5;
/**
 * @author LUTFIL HAZIQ BIN ADNAN
 */
public class Register {
    private String icNo, name;
    private int trainingType, paxNo, isStudent;
    public Register() {
    public Register(String icNo, String name, int trainingType,
int paxNo, int isStudent) {
        this.icNo = icNo;
        this.name = name;
        this.trainingType = trainingType;
        this.paxNo = paxNo;
        this.isStudent = isStudent;
    public String getIcNo() {
        return icNo;
    public void setIcNo(String icNo) {
        this.icNo = icNo;
    public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
    }
    public int getTrainingType() {
        return trainingType;
    }
    public void setTrainingType(int trainingType) {
        this.trainingType = trainingType;
    }
```

```
public int getPaxNo() {
    return paxNo;
}
public void setPaxNo(int paxNo) {
    this.paxNo = paxNo;
public int getIsStudent() {
    return isStudent;
public void setIsStudent(int isStudent) {
    this.isStudent = isStudent;
public String getTrainingTypeStr() {
    switch (getTrainingType()) {
        case 1:
            return "C++ Training";
        case 2:
            return "Java for Beginner";
        case 3:
            return "HTML5";
        case 4:
            return "Java EEE";
        case 5:
            return "Android Programming";
        default:
            return "";
    }
}
public String getIsStudentStr() {
    if (getIsStudent() == 1) {
        return "Yes";
    }
    else {
        return "No";
    }
}
public double getAmount() {
    double amount;
    switch (getTrainingType()) {
        case 1:
            amount = 3000 * getPaxNo();
            break;
        case 2:
            amount = 3000 * getPaxNo();
            break;
```

```
case 3:
            amount = 2800 * getPaxNo();
            break;
        case 4:
            amount = 5500 * getPaxNo();
            break;
        case 5:
            amount = 3200 * getPaxNo();
            break;
        default:
            amount = 0;
    }
    if (getIsStudent() == 1) {
        amount *= 0.9;
    }
    return amount;
}
```

o registerTraining.jsp

```
<%--
Document : registerTraining
   Created on : 8 May 2024, 4:09:37 pm
             : LUTFIL HAZIQ BIN ADNAN --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
   <head>
       <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
       <title>Training Registration</title>
   </head>
   <body>
       <h1>Register IT Training</h1>
       <form action="processTraining.jsp">
           <fieldset>
               <legend><b>Training Registration</b></legend>
               <label for="icNo">IC
No</label>
                          <input type="text" name="icNo"
id="icNo" placeholder="E.g. 911210-05-1234">
```

```
<1abel
for="name">Name</label>
                         <input type="text" name="name"
id="name" placeholder="Enter your name">
                     <label for="trainingType">Type
of Training</label>
                         <select name="trainingType"</pre>
id="trainingType">
                                <option value="1">C++
Training</option>
                                <option value="2">Java for
Beginner</option>
                                <option
value="3">HTML5</option>
                                <option value="4">Java
EEE</option>
                                <option value="5">Android
Programming</option>
                            </select>
                         <1abel for="paxNo">No of
Pax</label>
                         <input type="number"
name="paxNo" id="paxNo" placeholder="No of pax" min="0">
                     <label>Student</label>
                         <input type="radio"</pre>
name="isStudent" id="yes" value="1">
                            <label for="yes">Yes</label>
                            <input type="radio"</pre>
name="isStudent" id="no" value="0" checked="checked">
                            <label for="no">No</label>
                         <br>
                            <button
type="submit">Submit</button>
                            <button
type="reset">Cancel</button>
                         </fieldset>
       </form>
   </body>
</html>
```

```
<%--
Document
         : processTraining
    Created on: 9 May 2024, 8:27:45 pm
               : LUTFIL HAZIQ BIN ADNAN --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@page import="com.mycompany.lab5.Register" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>Training Registration</title>
        <style>
            p {
                font-size: 2rem;
                color: purple;
        </style>
    </head>
    <body>
        <h1>Training Registration Acknowledgement</h1>
        <%
            String icNo, name;
            int trainingType, paxNo, isStudent;
            String trainingTypeStr, isStudentStr;
            int fees;
            icNo = request.getParameter("icNo");
            name = request.getParameter("name");
            trainingType =
Integer.parseInt(request.getParameter("trainingType"));
            paxNo =
Integer.parseInt(request.getParameter("paxNo"));
            isStudent =
Integer.parseInt(request.getParameter("isStudent"));
            Register register = new Register(icNo, name,
trainingType, paxNo, isStudent);
        IC No : <%= register.getIcNo() %>
        Name : <%= register.getName() %>
        Type of Training : <%= register.getTrainingTypeStr()</p>
%>
        Number of Pax : <%= register.getPaxNo() %>
person/s
        Student : <%= register.getIsStudentStr() %>
        Amount Due : RM <%= String.format("%.2f",</p>
register.getAmount()) %>
    </body>
</html>
```

• Output:

Register IT Training

Training Registration		
IC No	0213012314	
Name	Lutfil Haziq	
Type of Training	Android Programming ▼	
No of Pax	4	
Student	● Yes ○ No	
Submit Cancel		

Training Registration Acknowledgement

IC No: 0213012314

Name: Lutfil Haziq

Type of Training: Android Programming

Number of Pax : 4 person/s

Student: Yes

Amount Due: RM 11520.00

Reflection:

O What have you learned from this exercise?

From this exercise, I have learned how to create a JavaBean named Register to handle registration details for IT training.

o Describe the steps how you construct Register JavaBeans?

To construct a Register JavaBean, first create a Java class with private properties for the registration fields (e.g., username, password, email), along with public getter and setter methods for each property. Ensure the class implements the Serializable interface if the bean needs to be stored or transferred. Next, in your JSP file, use the <jsp:useBean> tag to instantiate the bean and <jsp:setProperty> to populate its properties. This approach keeps the business logic encapsulated within the bean and separates it from the presentation layer in the JSP.

Task 3: Installing JSTL Taglibs

- Objective: Installation of Apache Taglibs.
- Output:

```
| Second | S
```

- Reflection:
 - O What you have learnt from this exercise?

From this exercise I have learned how to install JSTL Taglibs in a web application project.

Task 4: Using Java Standard Tag Library (JSTL)

- Objective: Using JSTL core tags directive to retrieve information from one page and display it in another JSP page and format number, currency.
- Code (Task 1):
 - o jstlCore1.jsp

```
<%--
Document : jstlCore1
    Created on : 12 May 2024, 1:12:49 pm
             : LUTFIL HAZIQ BIN ADNAN --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<!DOCTYPE html>
<html>
   <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>Using JSTL Tag Library</title>
    </head>
    <body>
        <h1>Use JSTL's Features</h1>
        <c:set var="message" value="Welcome to CSM3023 - Web</pre>
Programming courses..!" />
        <c:out value="${message}" />
    </body>
</html>
```

• Output (Task 1):



- Code (Task 2):
 - userRegistration.html

```
<!DOCTYPE html>
<html>
        <head>
                 <title>User Registration</title>
                 <meta charset="UTF-8">
                 <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
        </head>
        <body>
                 <h1>User Registration</h1>
                 <form action="processUser.jsp">
                          <fieldset>
                                   <leqend><b>User Details</b></legend>
                                   <1abel
for="userName">Name</label>
                                                             <to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><to><t
<1abel
for="userSurname">Surname</label>
```

```
<input type="text"
name="userSurname" id="userSurname" placeholder="Enter
surname">
                      <1abel
for="userPassword">Password</label>
                          <input type="password"
name="userPassword" id="userPassword" placeholder="Max 10
characters" maxlength="10">
                      Gender
                          <input type="radio"</pre>
name="userGender" id="male" value="1">
                              <label for="male">Male</label>
                              <input type="radio"</pre>
name="userGender" id="female" value="2">
for="female">Female</label>
                          Type of User
                          <select name="userType"</pre>
id="userType">
                                  <option</pre>
value="1">Beginner</option>
                                  <option
value="2">Intermediate</option>
                                  <option
value="3">Advanced</option>
                              </select>
                          Prefer Language
                          <input type="checkbox"</pre>
name="userLanguage" id="malay" value="1">
                              <label for="malay">Malay</label>
                              <input type="checkbox"</pre>
name="userLanguage" id="english" value="2">
                              <label
for="english">English</label>
                              <input type="checkbox"</pre>
name="userLanguage" id="mandarin" value="3">
                              <label
for="mandarin">Mandarin</label>
                              <input type="checkbox"</pre>
name="userLanguage" id="tamil" value="4">
                              <label for="tamil">Tamil</label>
                          <br>
```

processUser.jsp

```
<del>-</del>%--
Document
          : processUser
    Created on : 10 May 2024, 11:15:14 am
               : LUTFIL HAZIQ BIN ADNAN --%>
    Author
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>User Registration</title>
    </head>
    <body>
        <h1>Retrieve info using c:param & display it using
c:out</h1>
        Name: <c:out value="${param.userName}" />
        Surname: <c:out value="${param.userSurname}" />
        >
            Gender:
            <c:choose>
                 <c:when test="${param.userGender ==</pre>
1}">Male</c:when>
                 <c:when test="${param.userGender ==</pre>
2}">Female</c:when>
            </c:choose>
        >
            Type of user:
            <c:choose>
                 <c:when test="${param.userType ==</pre>
1}">Beginner</c:when>
                 <c:when test="${param.userType ==</pre>
2}">Intermediate</c:when>
                 <c:when test="${param.userType ==</pre>
3}">Advanced</c:when>
            </c:choose>
```

```
>
            Prefer Language(s):
             <c:choose>
                 <c:when test="${paramValues.userLanguage !=</pre>
null}">
                     <c:forEach
items="${paramValues.userLanguage}" var="lang">
                         <c:choose>
                              <c:when test="${lang ==</pre>
1}">Malay</c:when>
                              <c:when test="${lang ==</pre>
2}">English</c:when>
                              <c:when test="${lang ==</pre>
3}">Mandarin</c:when>
                              <c:when test="${lang ==</pre>
4}">Tamil</c:when>
                         </c:choose>
                     </c:forEach>
                 </c:when>
                 <c:otherwise>None Selected</c:otherwise>
             </c:choose>
        </body>
</html>
```

• Output (Task 2):

User Registration

User Details————————————————————————————————————		
Name	LUTFIL	
Surname	HAZIQ	
Password	•••••	
Gender	Male ○ Female	
Type of User	Advanced ~	
Prefer Language	□ Malay ✓ English □ Mandarin □ Tamil	
Cancel Submit		

Retrieve info using c:param & display it using c:out

Name: LUTFIL

Surname: HAZIQ

Gender: Male

Type of user: Advanced

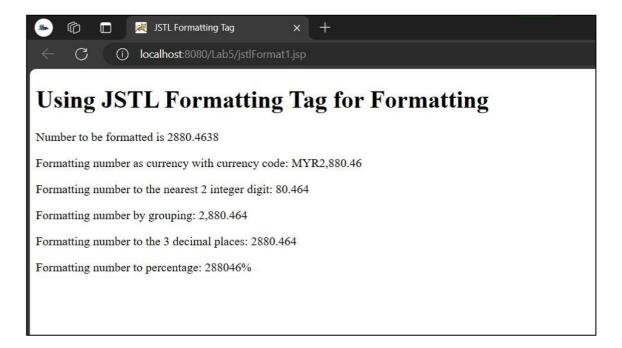
 $Prefer\ Language(s);\ English$

• Code (Task 3):

jstlFormat1.jsp

```
<%--
Document : jstlFormat1
    Created on : 12 May 2024, 1:45:18 am
             : LUTFIL HAZIQ BIN ADNAN --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<%@taglib prefix="fmt" uri="jakarta.tags.fmt" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>JSTL Formatting Tag</title>
    </head>
    <body>
        <h1>Using JSTL Formatting Tag for Formatting</h1>
        <!<!-- Assign specific number to variable -->
        <c:set var="total" value="2880.4638" />
        Number to be formatted is <c:out value="${total}"</p>
/>
        Formatting number as currency with currency code:
<fmt:formatNumber type="currency" currencyCode="MYR"</pre>
value="${total}" />
        Formatting number to the nearest 2 integer digit:
<fmt:formatNumber type="number" maxIntegerDigits="2"</pre>
value="${total}" />
```

Output (Task 3):



Reflection:

O What the purpose of using JSTL's tag library?

The purpose of using JSTL's tag library is to provide a standardized set of tags that facilitate common tasks in JavaServer Pages (JSP) development. These tags encapsulate commonly needed functionality, reducing the need for embedded Java code (scriplets) within JSP pages. This promotes cleaner, more maintainable code by separating presentation logic from business logic.

- o List FIVE(5) categories of JSTL library.
 - Core
 - Formatting
 - XML
 - SQL
 - Functions

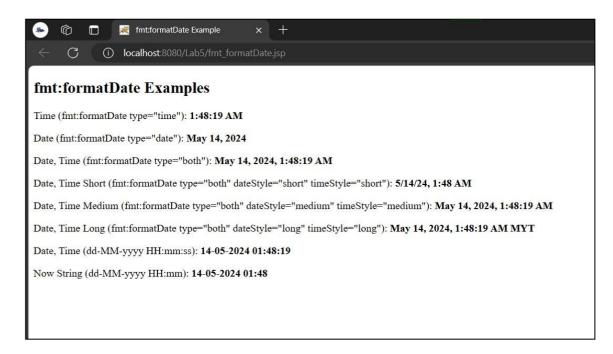
Task 5: Using JSP Standard Tag Library

- Objective: Using JSTL tags for parsing and formatting the dates.
- Code (Task 1):
 - o fmt formatDate.jsp

```
<%--
           : fmt_formatDate
Document
    Created on: 13 May 2024, 7:12:38 pm
               : LUTFIL HAZIQ BIN ADNAN --%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<%@taglib prefix="fmt" uri="jakarta.tags.fmt" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>fmt:formatDate Example</title>
    </head>
    <body>
        <h2>fmt:formatDate Examples</h2>
        <!-- a Date time string -->
        <c:set var="now" value="<%= new java.util.Date() %>" />
        >
            Time (fmt:formatDate type="time"):
            <strona>
                <fmt:formatDate type="time" value="${now}" />
            </strong>
        >
            Date (fmt:formatDate type="date"):
            <strong>
                <fmt:formatDate type="date" value="${now}" />
            </strong>
        >
            Date, Time (fmt:formatDate type="both"):
            <strong>
                <fmt:formatDate type="both" value="${now}" />
            </strong>
        >
            Date, Time Short (fmt:formatDate type="both"
dateStyle="short" timeStyle="short"):
            <strong>
                <fmt:formatDate type="both" dateStyle="short"</pre>
timeStyle="short" value="${now}" />
            </strong>
```

```
>
Date, Time Medium (fmt:formatDate type="both" dateStyle="medium"):
             <strong>
                  <fmt:formatDate type="both" dateStyle="medium"</pre>
timeStyle="medium" value="${now}" />
             </strong>
         >
Date, Time Long (fmt:formatDate type="both" dateStyle="long" timeStyle="long"):
             <strong>
\label{tope} $$ \formatDate type="both" dateStyle="long" timeStyle="long" value="${now}" /> $$
             </strong>
         >
             Date, Time (dd-MM-yyyy HH:mm:ss):
             <strong>
                 <fmt:formatDate pattern="dd-MM-yyyy HH:mm:ss"</pre>
value="${now}" />
             </strong>
         <!<!-- Store in variable -->
         <fmt:formatDate pattern="dd-MM-yyyy HH:mm"</pre>
value="${now}" var="nowString" />
         >
             Now String (dd-MM-yyyy HH:mm):
             <strong>
                  <c:out value="${nowString}" />
             </strong>
         </body>
</html>
```

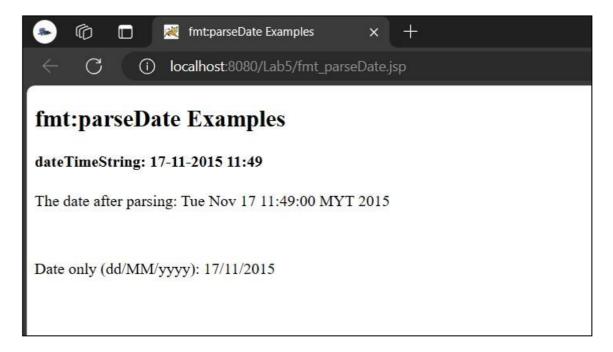
Output (Task 1):



- Code (Task 2):
 - fmt_parseDate.jsp

```
<%--
Document
          : fmt_parseDate
    Created on : 12 May 2024, 7:31:12 pm
               : LUTFIL HAZIQ BIN ADNAN --%>
    Author
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<%@taglib prefix="fmt" uri="jakarta.tags.fmt" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>fmt:parseDate Examples</title>
    </head>
    <body>
        <h2>fmt:parseDate Examples</h2>
        <c:set var="dateTimeString" value="17-11-2015 11:49" />
        <h4>
            dateTimeString:
            <c:out value="${dateTimeString}" />
        </h4>
```

Output (Task 2):



• Reflection:

O What you have learnt from this exercise?

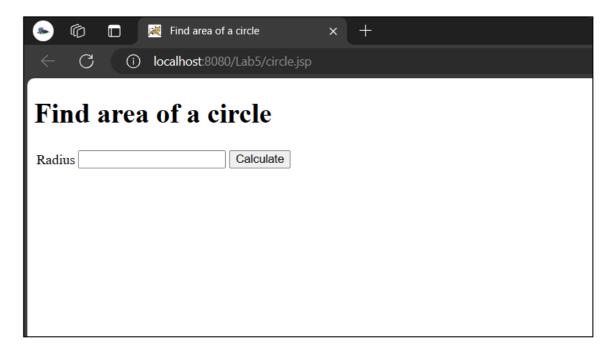
From this exercise I have learned how to format dates, parse dates, and combine formatting with core tags.

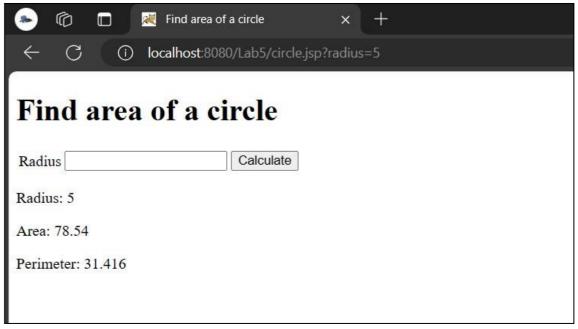
Exercise 1

- Objective: Write a JSP's form that asks the user to key-in the radius of circle. The program should calculate the area of circle and the perimeter of circle. Finally, use JSTL library to format your result into 3 decimal places.
- Code:
 - o circle.jsp

```
<%--
           : circle
Document
    Created on: 13 May 2024, 8:45:57 pm
                : LUTFIL HAZIQ BIN ADNAN --%>
    Author
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>
<%@taglib prefix="fmt" uri="jakarta.tags.fmt" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
         <title>Find area of a circle</title>
    </head>
    <body>
        <h1>Find area of a circle</h1>
        <form>
             /tr>
                      <label>Radius</label>
                     <input type="number" name="radius"
required>
                     td><button
type="submit">Calculate</button>
                 </form>
        <c:if test="${param.radius != null}" >
             <c:set var="radius" value="${param.radius}" />
             <c:set var="area" value="${Math.PI * radius *</pre>
radius}" />
             <c:set var="perimeter" value="${2 * Math.PI *</pre>
radius}" />
             Radius: <c:out value="${radius}" />
Area: <fmt:formatNumber type="number"
groupingUsed="false" maxFractionDigits="3" value="${area}"</pre>
/>
```

Output:





Exercise 2

- Objective: Write a web-based program that calculates and displays the amount paid for the stock alone without the commission, the amount of the commission, the total amount paid (for the stock plus the commission).
- Code:
 - StockPurchase.java

```
package com.mycompany.lab5;
/**
 * @author LUTFIL HAZIQ BIN ADNAN
public class StockPurchase {
    private int numShares;
    private double pricePerShare;
    private double commissionRate;
    public StockPurchase() {
    public StockPurchase(int numShares, double pricePerShare,
double commissionRate) {
        this.numShares = numShares;
        this.pricePerShare = pricePerShare;
        this.commissionRate = commissionRate;
    }
    public int getNumShares() {
        return numShares;
    public void setNumShares(int numShares) {
        this.numShares = numShares;
    public double getPricePerShare() {
        return pricePerShare;
    public void setPricePerShare(double pricePerShare) {
        this.pricePerShare = pricePerShare;
    public double getCommissionRate() {
```

```
return commissionRate;
}
public void setCommissionRate(double commissionRate) {
    this.commissionRate = commissionRate;
public double getCommissionRateAsPercentage() {
    if (commissionRate <= 1)</pre>
        return commissionRate * 100;
    else
        return commissionRate;
}
public double calculateStockCost() {
    return getNumShares() * getPricePerShare();
public double calculateCommission() {
  return calculateStockCost() * getCommissionRate();
public double calculateTotalCost() {
  return calculateStockCost() + calculateCommission();
```

stock_purchase.html

```
<!DOCTYPE html>
<html>
   <head>
       <title>Stock Purchase</title>
       <meta charset="UTF-8">
       <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   </head>
   <body>
       <h1>Stock Purchase</h1>
       <form action="stock_purchase_process.jsp">
           <label for="shareNum">Number of
Shares:</label>
                  <input type="number" name="shareNum"
id="shareNum" min="0" required>
              <label for="sharePrice">Price per
Share:</label>
                  <input type="number" name="sharePrice"
id="sharePrice" min="0" step="0.01" required>
```

stock purchase process.jsp

```
<%--
Document : stock_purchase_process
    Created on: 11 May 2024, 12:35:09 pm
                : LUTFIL HAZIQ BIN ADNAN --%>
    Author
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@taglib prefix="c" uri="jakarta.tags.core" %>

<%@taglib prefix="fmt" uri="jakarta.tags.fmt" %>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html;</pre>
charset=UTF-8">
        <title>Stock Purchase Results</title>
    </head>
    <body>
        <c:set var="shareNum" value="${param.shareNum}" />
        <c:set var="sharePrice" value="${param.sharePrice}" />
        <c:set var="comRate" value="${param.comRate}" />
        <jsp:useBean id="purchase"
class="com.mycompany.lab5.StockPurchase">
             <jsp:setProperty name="purchase"</pre>
property="numShares" value="${shareNum}" />
            <jsp:setProperty name="purchase"</pre>
property="pricePerShare" value="${sharePrice}" />
            <jsp:setProperty name="purchase"</pre>
property="commissionRate" value="${comRate / 100}" />
        </jsp:useBean>
        <h2>Stock Purchase Details</h2>
        Number of Share: <c:out</p>
value="${purchase.getNumShares()}" />
        Price per Share: <fmt:formatNumber type="currency"</p>
currencySymbol="RM" groupingUsed="false" maxFractionDigits="2"
value="${purchase.getPricePerShare()}" />
```

Output:

