



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

**CSM3023 (K1)**

Lab Report 5

Prepared by:

NURHAZIRAH BINTI ABDULLAH (S68144)

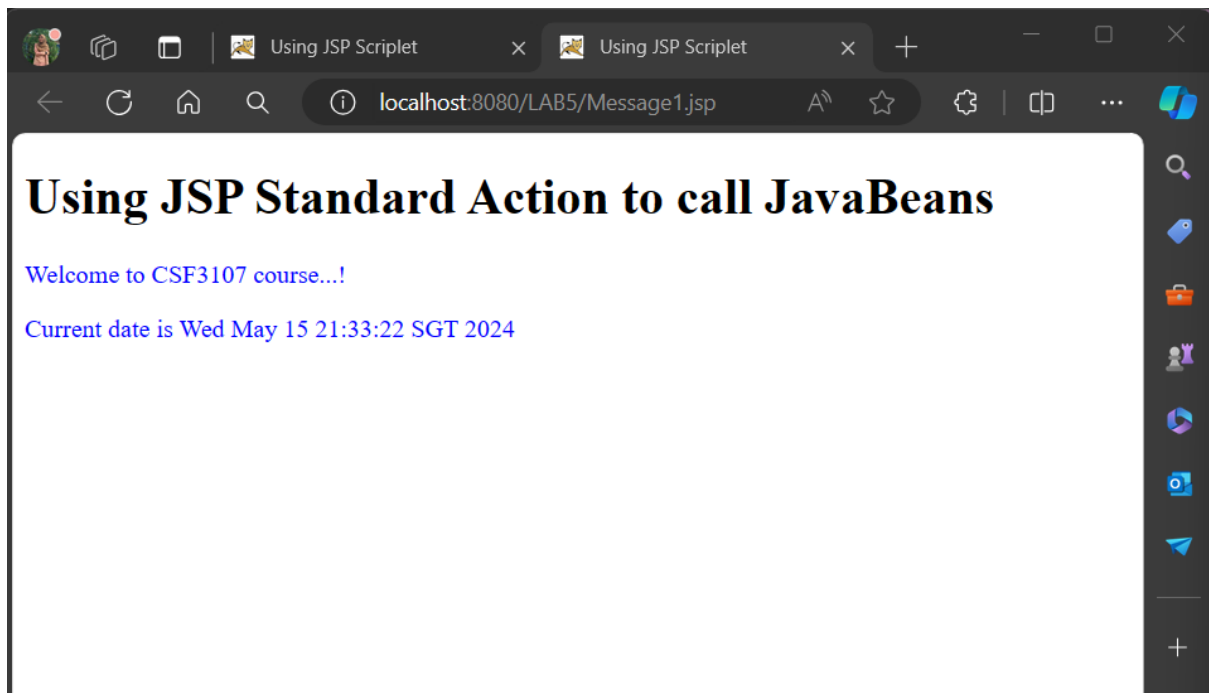
Prepared for:

ENCIK MOHD ARIZAL SHAMSIL MAT RIFIN

[BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING)]

SEMESTER II 2023/2024

## Task 1



## Reflection

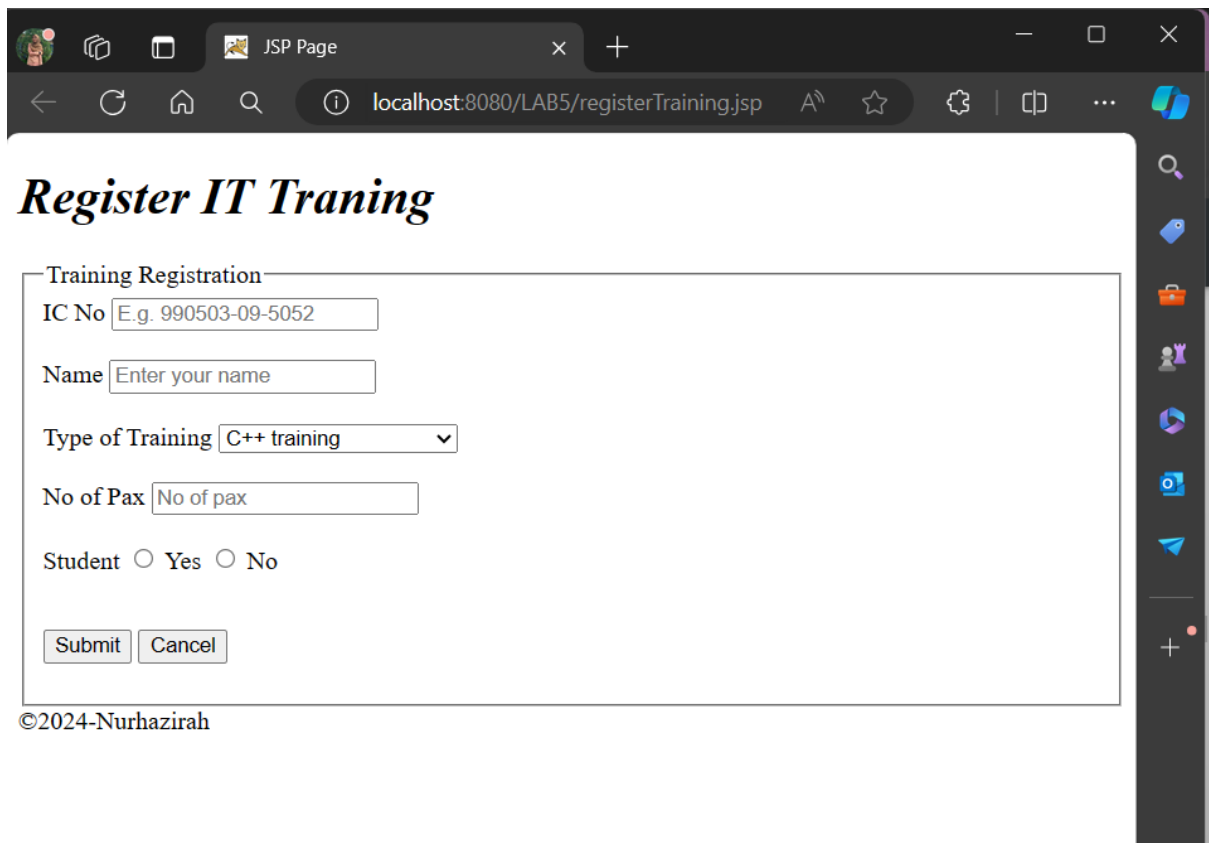
1. What you have learnt from this exercise?

Basic concept using JSP Standard Actions and JavaBeans to create dynamic web content in Java web applications.

2. Explain the differences when calling JavaBeans using JSP Standard Action and Java Scriptlet.

JSP	Java Scriptlet
JSP allows to interact with JavaBeans in declarative manner	Java Scriptlets allows to embed Java code directly within the JSP file

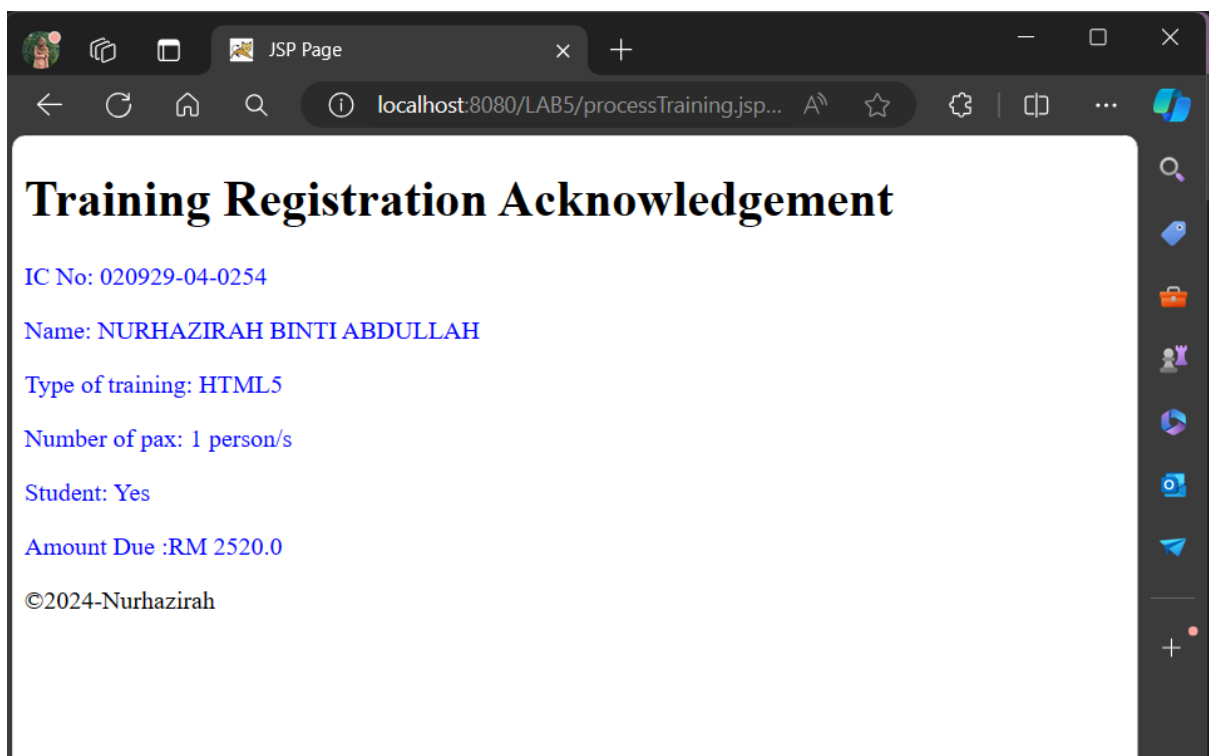
## Task 2



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/LAB5/registerTraining.jsp'. The page title is 'JSP Page'. The main content area features a form titled 'Register IT Training' in a large, bold, italicized serif font. The form is enclosed in a light gray border and contains the following fields and controls:

- Training Registration** (Section Header)
- IC No**: A text input field with the placeholder 'E.g. 990503-09-5052'.
- Name**: A text input field with the placeholder 'Enter your name'.
- Type of Training**: A dropdown menu with 'C++ training' selected.
- No of Pax**: A text input field with the placeholder 'No of pax'.
- Student**: Radio buttons for 'Yes' and 'No'.
- Submit** and **Cancel** buttons.

At the bottom left of the form, the copyright notice '©2024-Nurhazirah' is displayed.



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/LAB5/processTraining.jsp...'. The page title is 'JSP Page'. The main content area features a form titled 'Training Registration Acknowledgement' in a large, bold, serif font. The form displays the following information:

- IC No**: 020929-04-0254
- Name**: NURHAZIRAH BINTI ABDULLAH
- Type of training**: HTML5
- Number of pax**: 1 person/s
- Student**: Yes
- Amount Due**: :RM 2520.0

At the bottom left of the form, the copyright notice '©2024-Nurhazirah' is displayed.

## Reflection

1. What you have learnt from this exercise?

Use `request.getParameter()` method to process trainingregistration

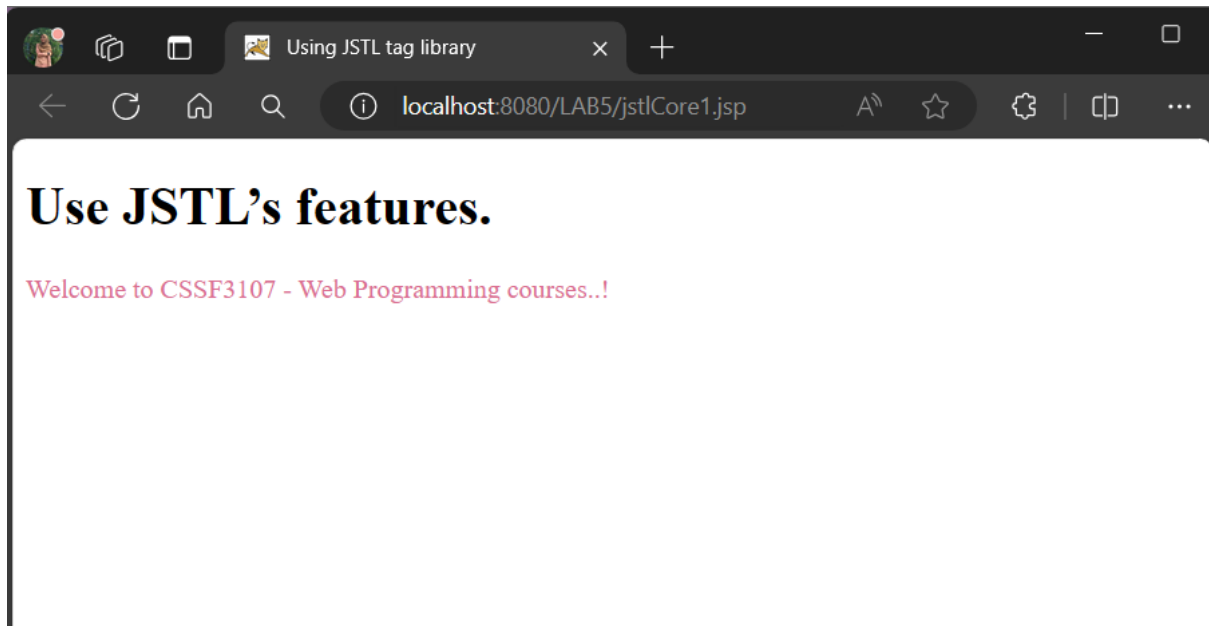
2. Describe the steps how you construct Register JavaBeans?

Encapsulate data with setter and getter

## Task 3:

Download the taglib

## Task 4:



Using JSTL tag library

TODO supply a title

localhost:8080/LAB5/userRegistration.ht...

User Details

Name

E.g. Enter firstname

Surname

E.g. Enter surname

Password

E.g. Max 10 characters

Gender

☐ Male ☐ Female

Type of User

Beginner

Prefer Language

☐ Malay ☐ English ☐ Mandarin ☐ Tamil

Submit

Cancel

©2024-Nurhazirah

Using JSTL tag library

localhost:8080/LAB5/proce

localhost:8080/LAB5/processUser.jsp?n...

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

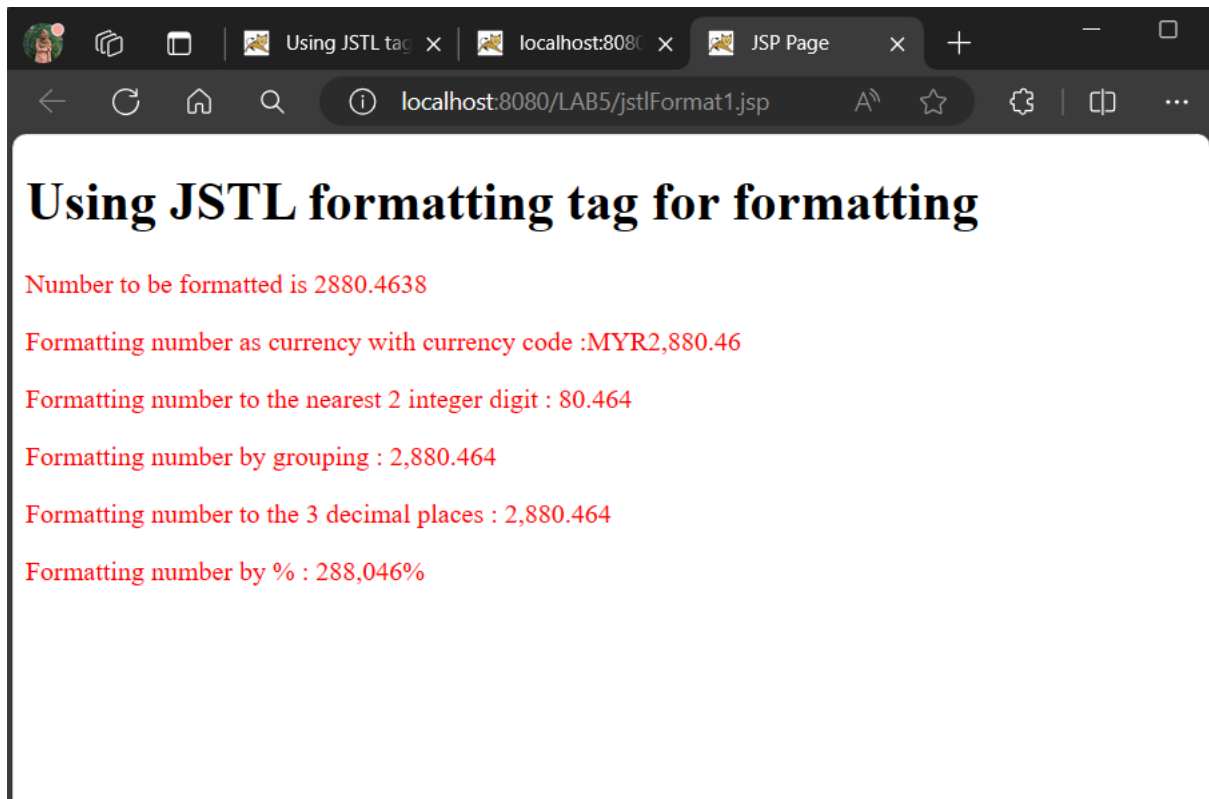
First Name: Ikmal

Surname : Hakim

Gender :male

Type of user :Beginner

Language : Malay



## Reflection

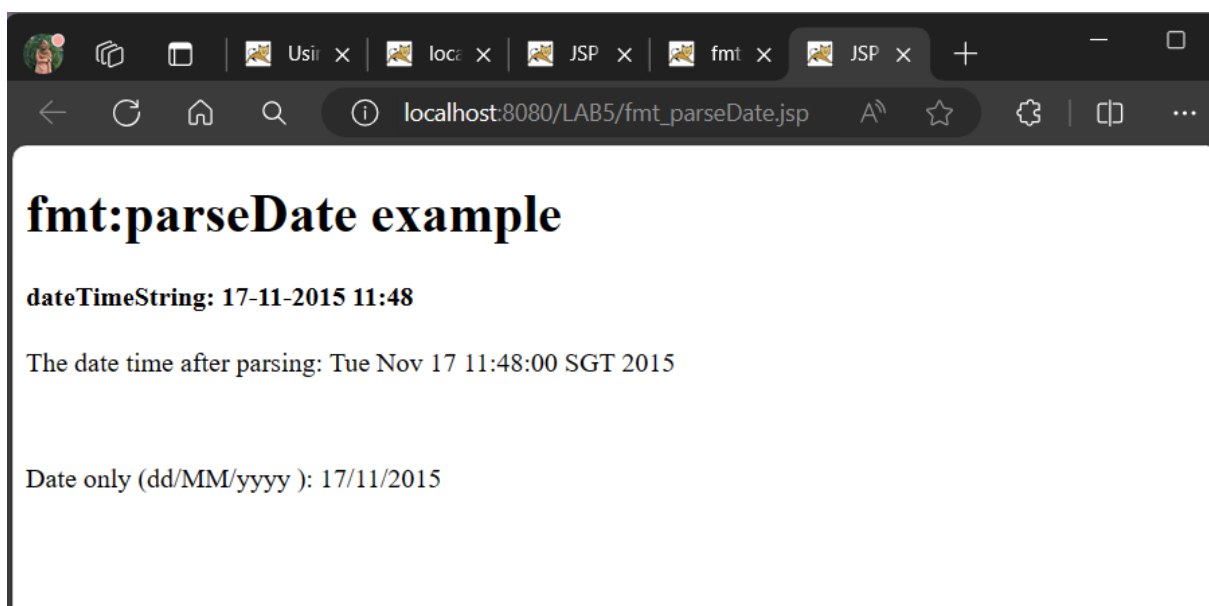
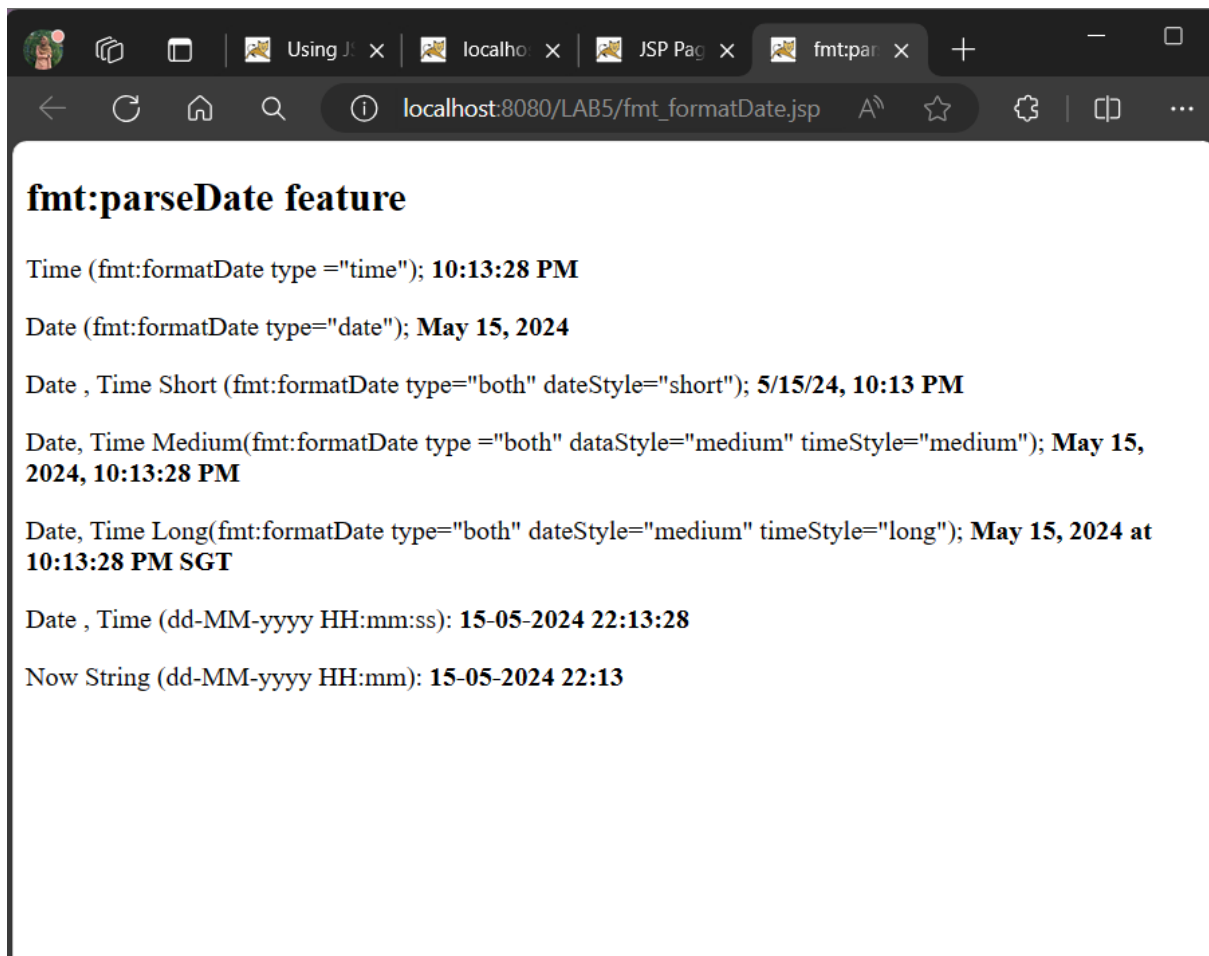
1. What the purpose of using JSTL's tag library?

It can improved readability and maintainability such as tags provide a higher level of abstraction compared to raw Java code

2. List FIVE(5) categories of JSTL library.

- Core tags(<c:>)
- Formatting tags ('<fmt:>')
- Sql tags('<sql:>')
- Xml tags ('<x:>')
- Functions tags('<fn:>')

## Task 5

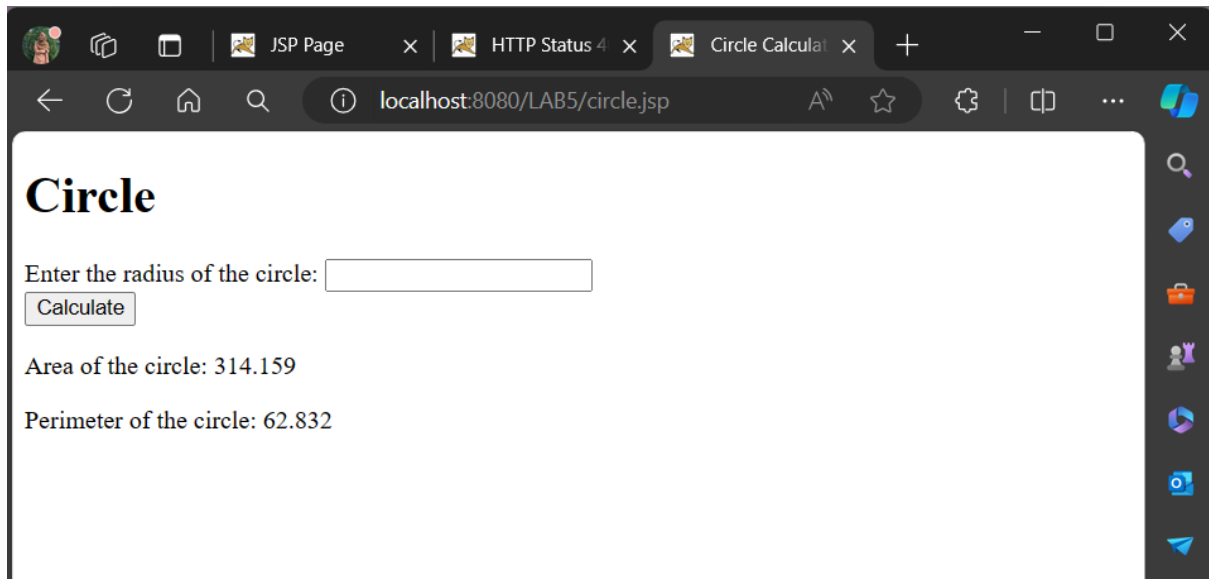


## Reflection

1. What you have learnt from this exercise?

## Exercise

1.

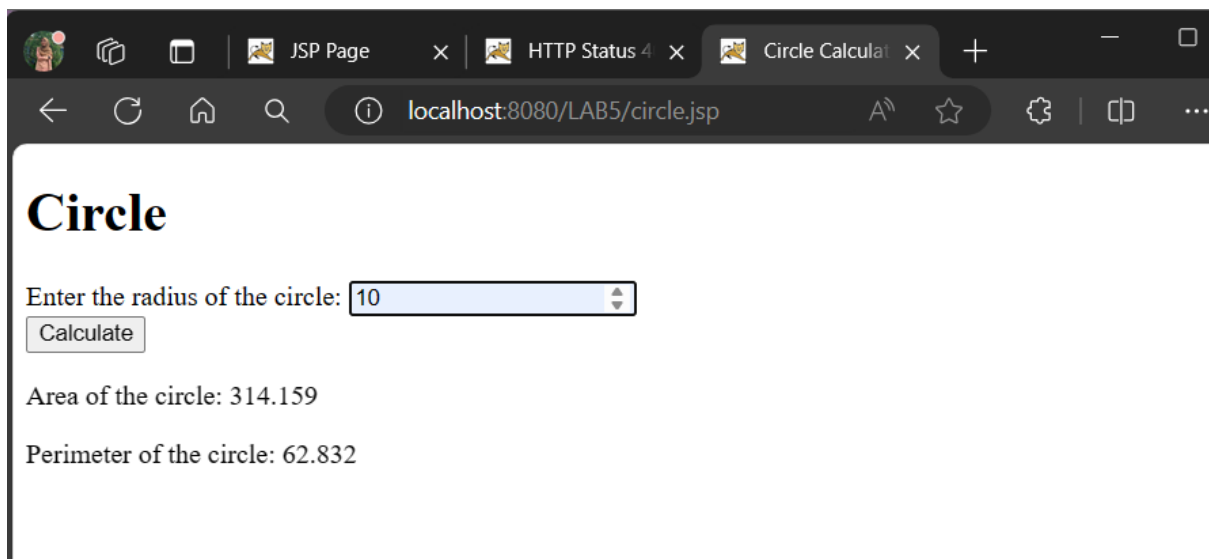


**Circle**

Enter the radius of the circle:

Area of the circle: 314.159

Perimeter of the circle: 62.832



**Circle**

Enter the radius of the circle:

Area of the circle: 314.159

Perimeter of the circle: 62.832



2.

