Lab #5a:
SERVER-SIDE SCRIPTING (PHP)

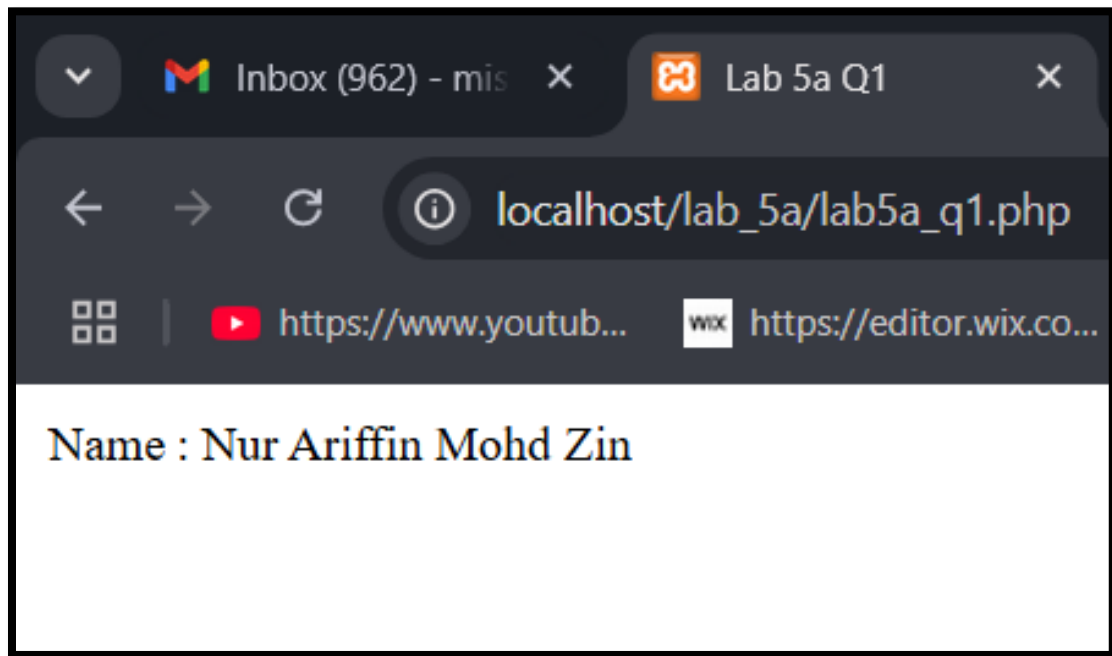| Topic	Web page development using PHP
Domain of Learning	Psychomotor (P2: Set; P3: Guided Respond; P4: Mechanism)
Learning objective	1. To evaluate the response to solve the problem as required. (P2) 2. To evaluate the skill of how the web page is developed while using the code/tags correctly. (P3) 3. To evaluate the value added of creativity/knowledge/skill in web page development. (P4)
Lab activity objective	To use the combination of HTML tags and PHP scripting adequately based on the suitable requirement of a case study.

Instruction: Answer all questions. Write your answer and screenshot the output in Microsoft Word. Submit through Author in PDF format.

1. **Create a folder named** `lab_5a` in your XAMPP's `htdocs` folder. **Create a PHP file** named `lab5a_q1.php` inside the folder. Copy and paste the code below. Then, **start** your Apache web server. Open your browser and enter `localhost/yourfoldername/yourphpfilename`.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Lab 5a Q1</title>
</head>
<body>
    <?php
        $name = "Nur Ariffin Mohd Zin";
    ?>

    <table>
        <tr>
            <td>Name</td>
            <td><?php echo "$name"; ?></td>
        </tr>
    </table>

</body>
</html>
```

OUTPUT:

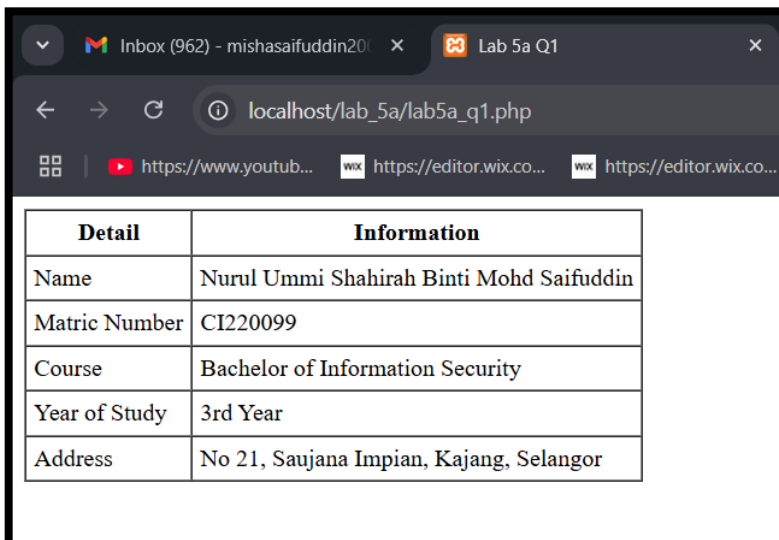Edit the PHP file to create variables of your details and display them on the HTML table. Your details should be as follows:
(a) Name
(b) Matric number
(c) Course
(d) Year of study
(e) Address

CODING:

```php
File   Edit   Selection   View   Go   Run   Terminal   Help

lab5a_q1.php  ×

C: > xampp > htdocs > lab_5a > lab5a_q1.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <title>Lab 5a Q1</title>
5   </head>
6   <body>
7       <?php
8           // Variables to store your details
9           $name = "Nurul Ummi Shahirah Binti Mohd Saifuddin"; // Replace with your name
10          $matricNumber = "CI220099"; // Replace with your matric number
11          $course = "Bachelor of Information Security"; // Replace with your course
12          $yearOfStudy = "3rd Year"; // Replace with your year of study
13          $address = "No 21, Saujana Impian, Kajang, Selangor"; // Replace with your address
14      ?>
15
16      <table border="1" cellpadding="5" cellspacing="0">
17          <tr>
18              <th>Detail</th>
19              <th>Information</th>
20          </tr>
21          <tr>
22              <td>Name</td>
23              <td><?php echo $name; ?></td>
24          </tr>
25          <tr>
26              <td>Matric Number</td>
27              <td><?php echo $matricNumber; ?></td>
28          </tr>
29          <tr>
30              <td>Course</td>
31              <td><?php echo $course; ?></td>
32          </tr>
33          <tr>
34              <td>Year of Study</td>
35              <td><?php echo $yearOfStudy; ?></td>
36          </tr>
37          <tr>
38              <td>Address</td>
39              <td><?php echo $address; ?></td>
40          </tr>
41      </table>
42  </body>
43  </html>
```

OUTPUT:

localhost/lab_5a/lab5a_q1.php

Detail	Information
Name	Nurul Ummi Shahirah Binti Mohd Saifuddin
Matric Number	CI220099
Course	Bachelor of Information Security
Year of Study	3rd Year
Address	No 21, Saujana Impian, Kajang, Selangor

2. Create a new PHP file named `lab5a_q2.php` and write the following associative array:

```php
$students = [
    [
        'name' => 'Alice',
        'program' => 'BIP',
        'age' => 21
    ],
    [
        'name' => 'Bob',
        'program' => 'BIS',
        'age' => 20
    ],
    [
        'name' => 'Raju',
        'program' => 'BIT',
        'age' => 22
    ]
];
```

Use `foreach` loop to display the content of `$students` on an **HTML table as below**.

Name	Program	Age
Alice	BIP	21
Bob	BIS	20
Raju	BIT	22

CODING:

```
le  Edit  Selection  View  Go  Run  Terminal  Help          ←  →

🐘 lab5a_q1.php          🐘 lab5a_q2.php  ×

C: > xampp > htdocs > lab_5a    C:\xampp\htdocs\lab_5a\lab5a_q2.php
   1    <!DOCTYPE html>
   2    <html lang="en">
   3    <head>
   4        <title>Lab 5a Q2</title>
   5        <style>
   6            table {
   7                border-collapse: collapse;
   8                width: 50%;
   9                margin: 20px auto;
  10            }
  11            th, td {
  12                border: 1px solid black;
  13                padding: 8px;
  14                text-align: center;
  15            }
  16            th {
  17                background-color: #f2f2f2;
  18            }
  19        </style>
  20    </head>
  21    <body>
  22        <?php
  23            // Associative array
  24            $students = [
  25                [
  26                    'name' => 'Alice',
  27                    'program' => 'BIP',
  28                    'age' => 21,
  29                ],
  30                [
  31                    'name' => 'Bob',
  32                    'program' => 'BIS',
  33                    'age' => 20,
  34                ],
  35                [
  36                    'name' => 'Raju',
  37                    'program' => 'BIT',
  38                    'age' => 22,
  39                ],
  40            ];
  41        ?>
  42
  43        <!-- Create the table -->
  44        <table>
  45            <thead>
  46                <tr>
  47                    <th>Name</th>
  48                    <th>Program</th>
  49                    <th>Age</th>
  50                </tr>
  51            </thead>
  52            <tbody>
  53                <?php foreach ($students as $student): ?>
  54                    <tr>
  55                        <td><?php echo $student['name']; ?></td>
  56                        <td><?php echo $student['program']; ?></td>
  57                        <td><?php echo $student['age']; ?></td>
  58                    </tr>
  59                <?php endforeach; ?>
  60            </tbody>
  61        </table>
  62    </body>
  63    </html>
  64
```
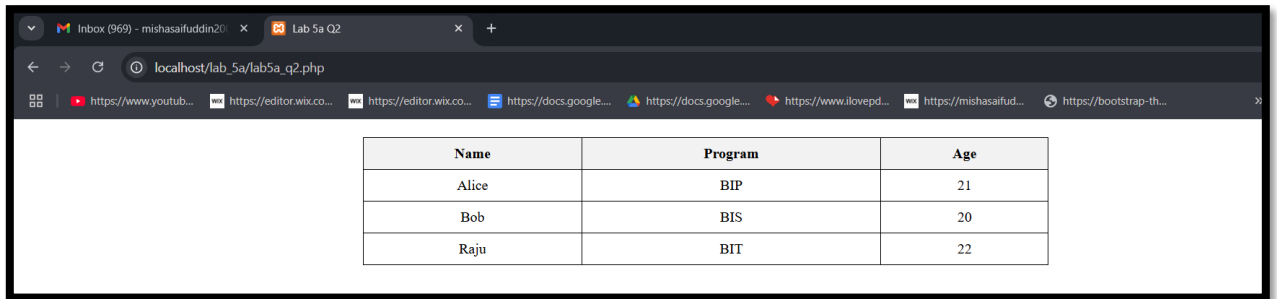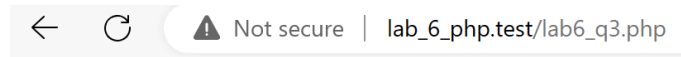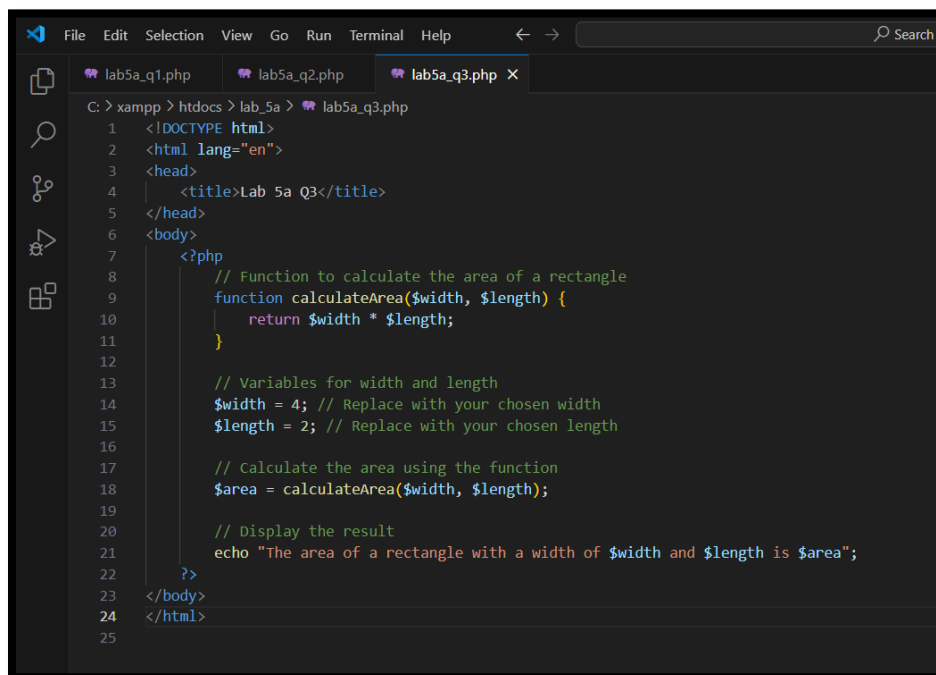
OUTPUT:

3. Create a new PHP file named `lab5a_q3.php` and write a PHP function named `calculateArea` to calculate the **area of a rectangle**. The function should **receive two parameters** and **return the area**. Call the function with any value of your choice and display the result. Below is an output sample of the function.
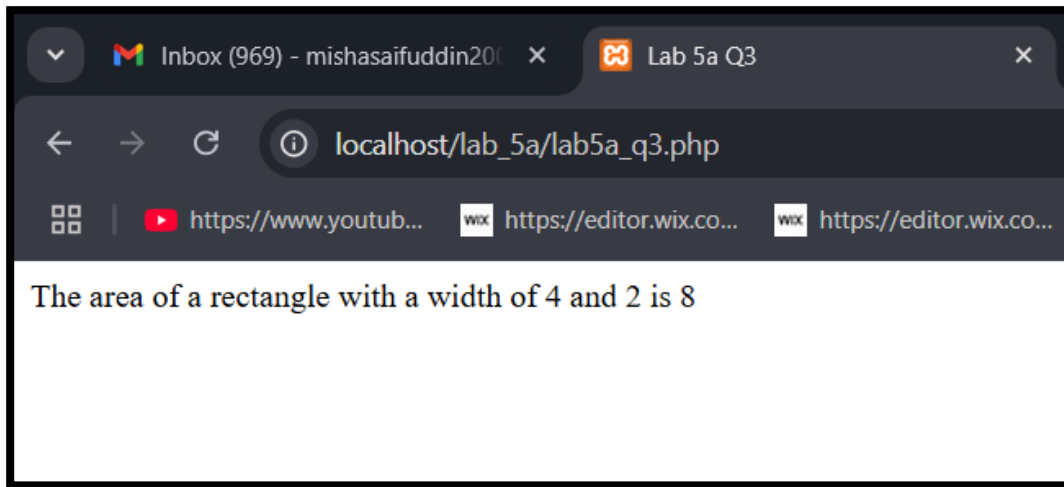

The area of a rectangle with a width of 4 and 2 is 8

CODING:

OUTPUT:

4. Push all your codes to GitHub and provide the link of your repository in the PDF report (along with your codes and screenshot of the output). You do not need to enable GitHub Pages since it cannot render server-side scripting like PHP.