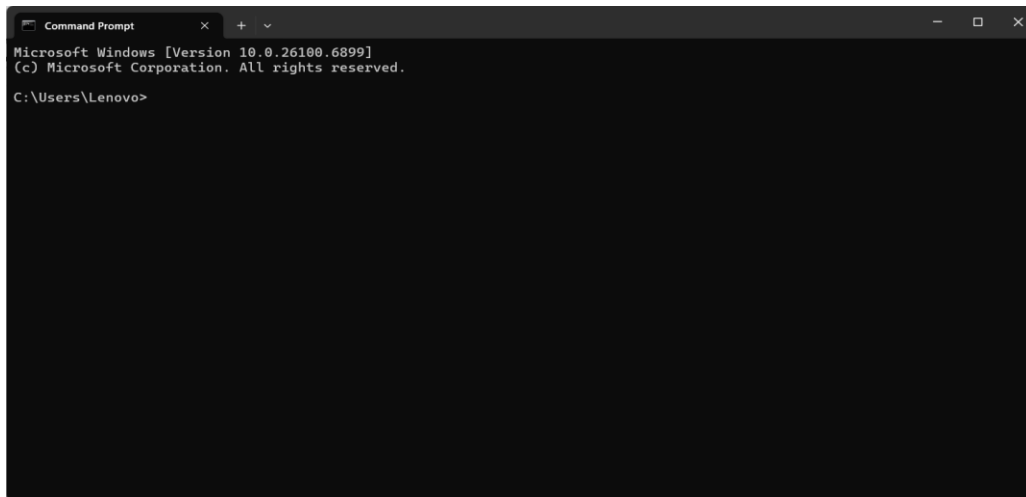


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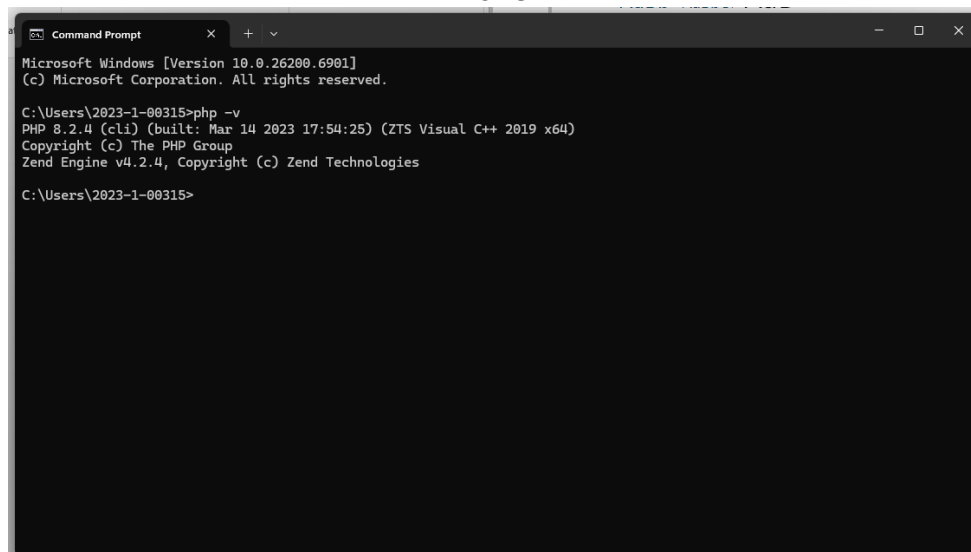
Laboratory Activity Web Systems and Technology Midterm

Procedure:

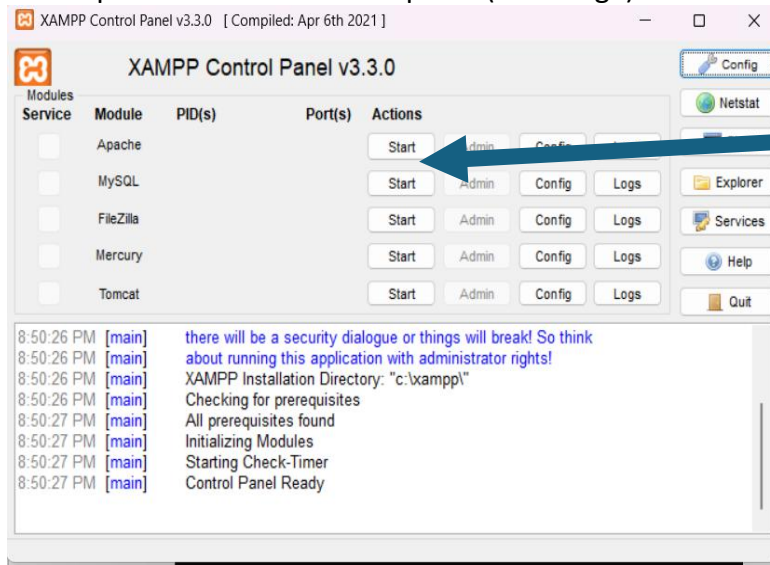
- Open your individual unit and check your current PHP version using the command prompt see sample image below : Write the command in the black provided



Answer:

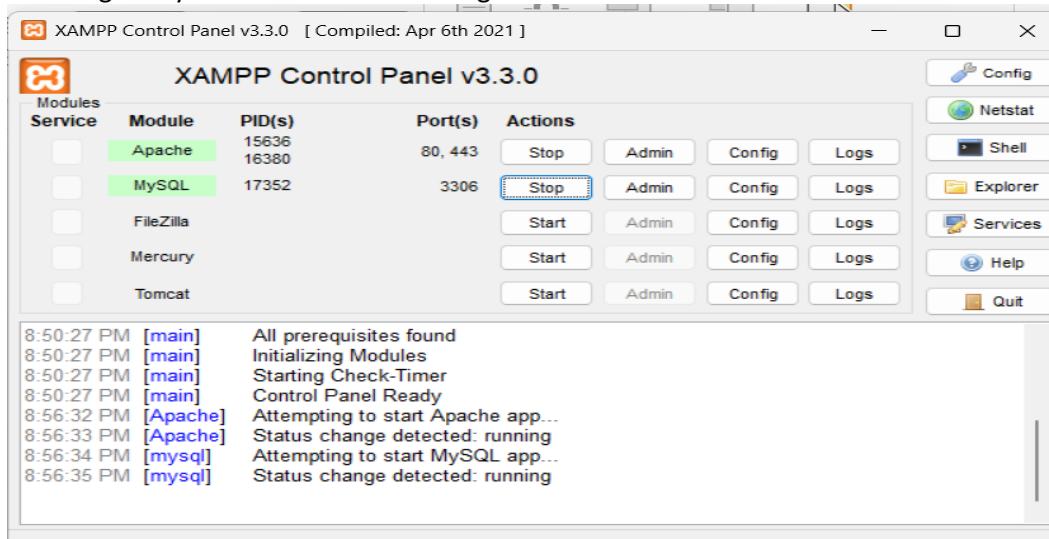


- Then open the XAMPP control panel (see image)



Make sure to click the Start button to open the Apache and MySQL

- Once it green your server is now running

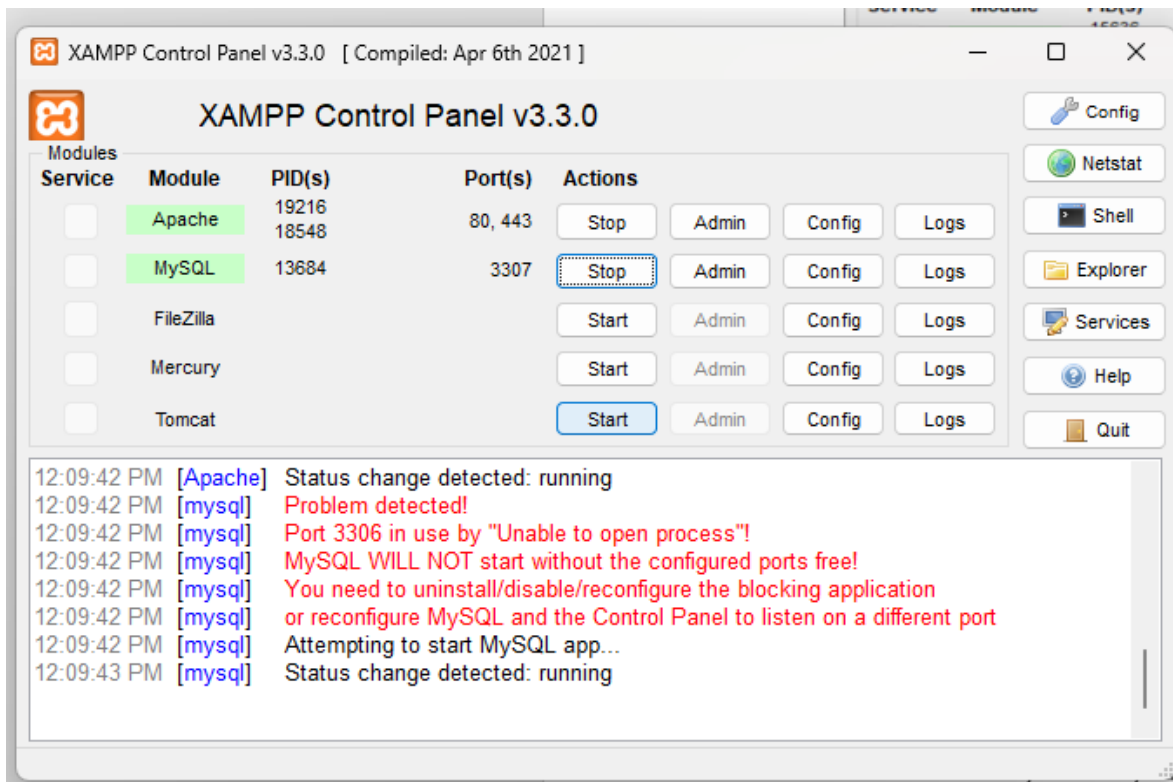


- Make sure to check the ports of Apache and MySQL as follows

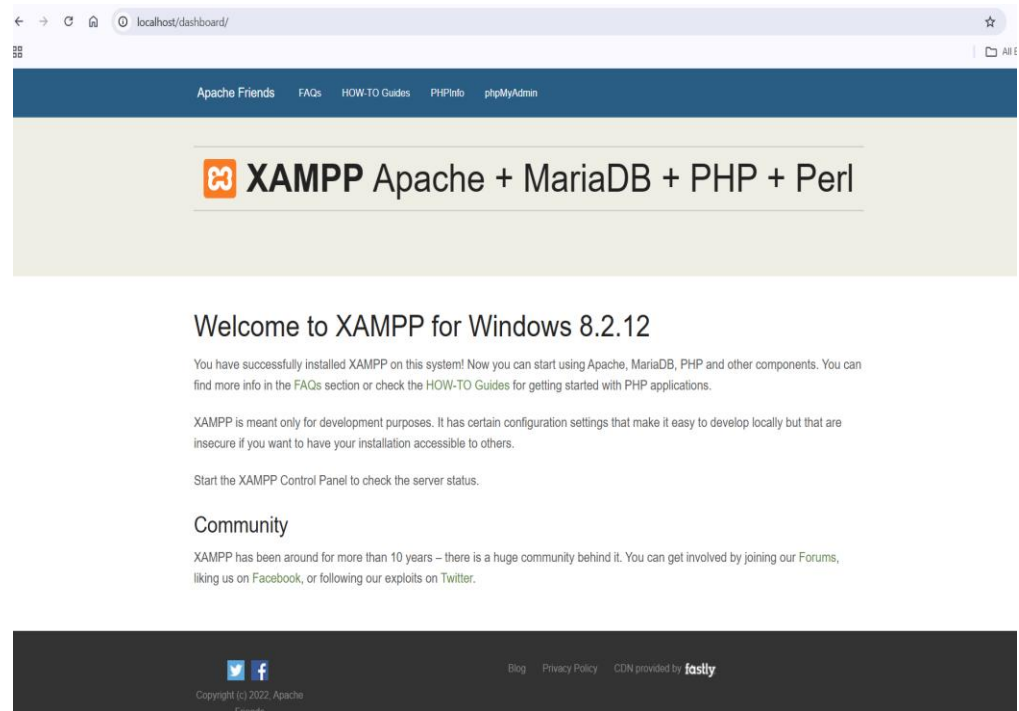
| Module | PID(s) | Port(s) |
|--------|---------------|---------|
| Apache | 26368 3028 | 80, 443 |
| MySQL | 25340 | 3306 |

- Your now ready to test your server
- Access the XAMPP dashboard in a browser

Answer:

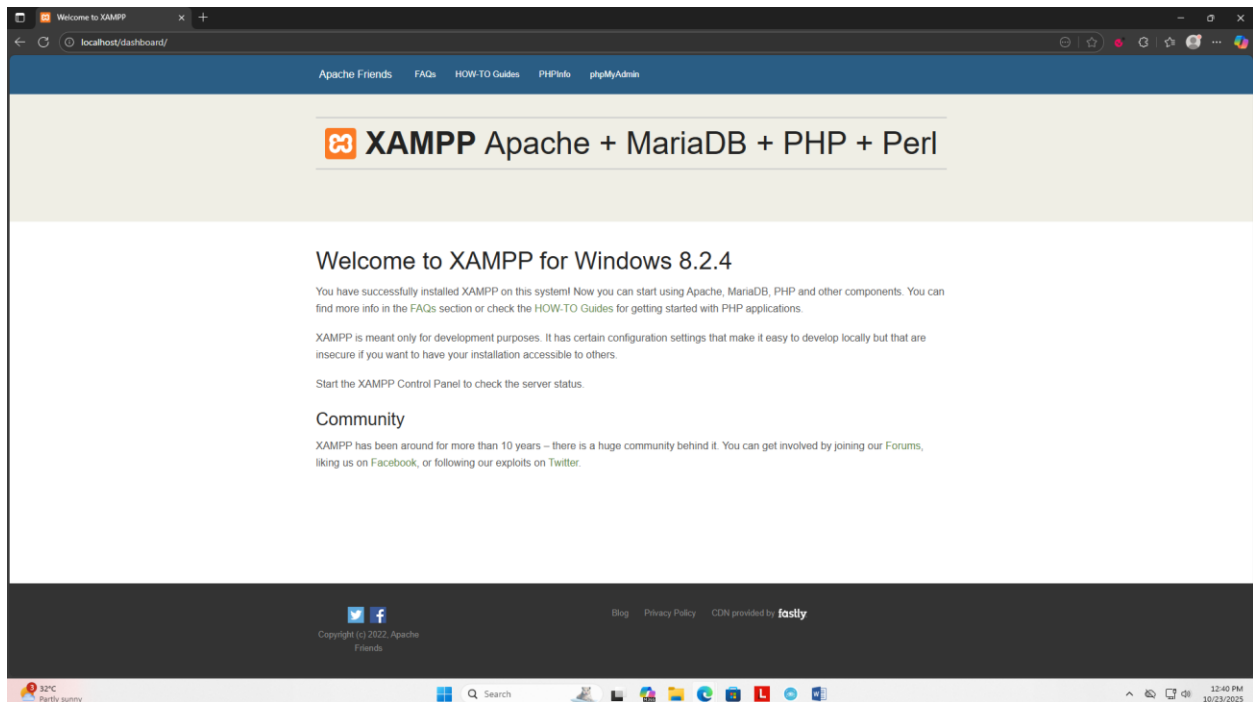


- Open your preferred web browser and type `http://localhost` into the address bar and press **Enter**.
- If XAMPP is working correctly, you will see the XAMPP welcome page, which confirms the Apache web server is running.



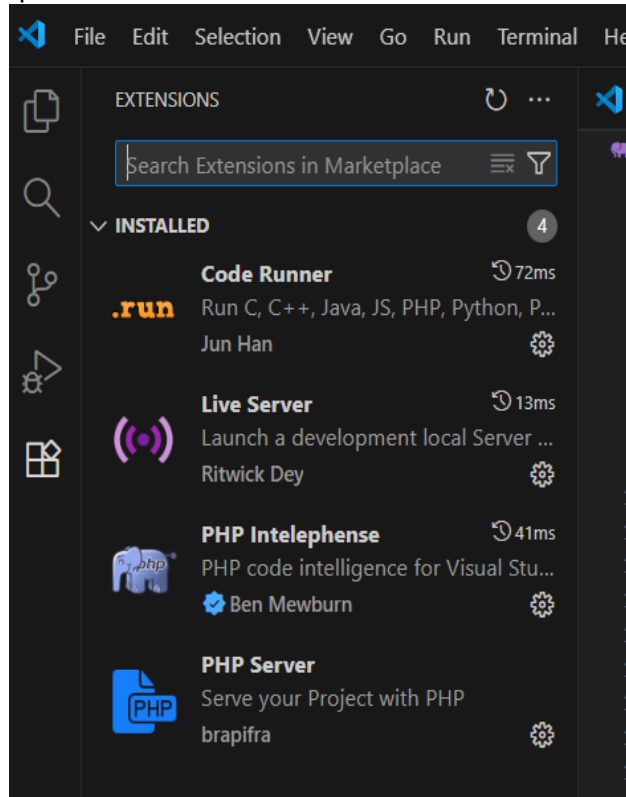
- Alternatively, you can type `http://127.0.0.1` to get the same result.

Answer:



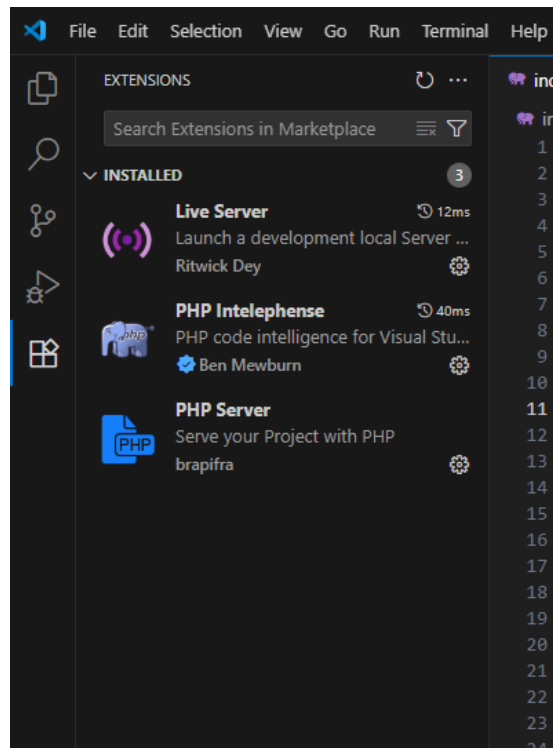
- Next, open your VS code app if the following Extension are available and properly installed
 - PHP server

- Live server
- PHP intelephense



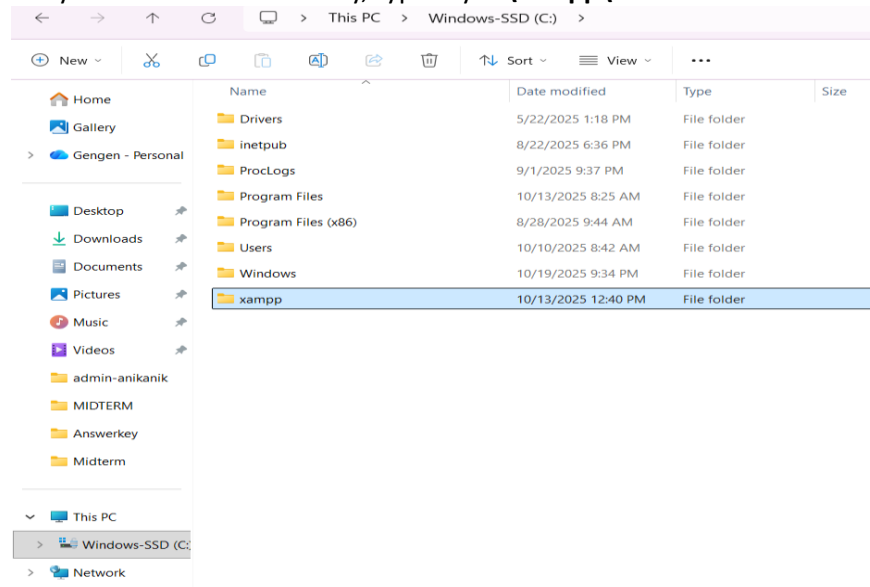
- Once installed start your first PHP code

Answer:

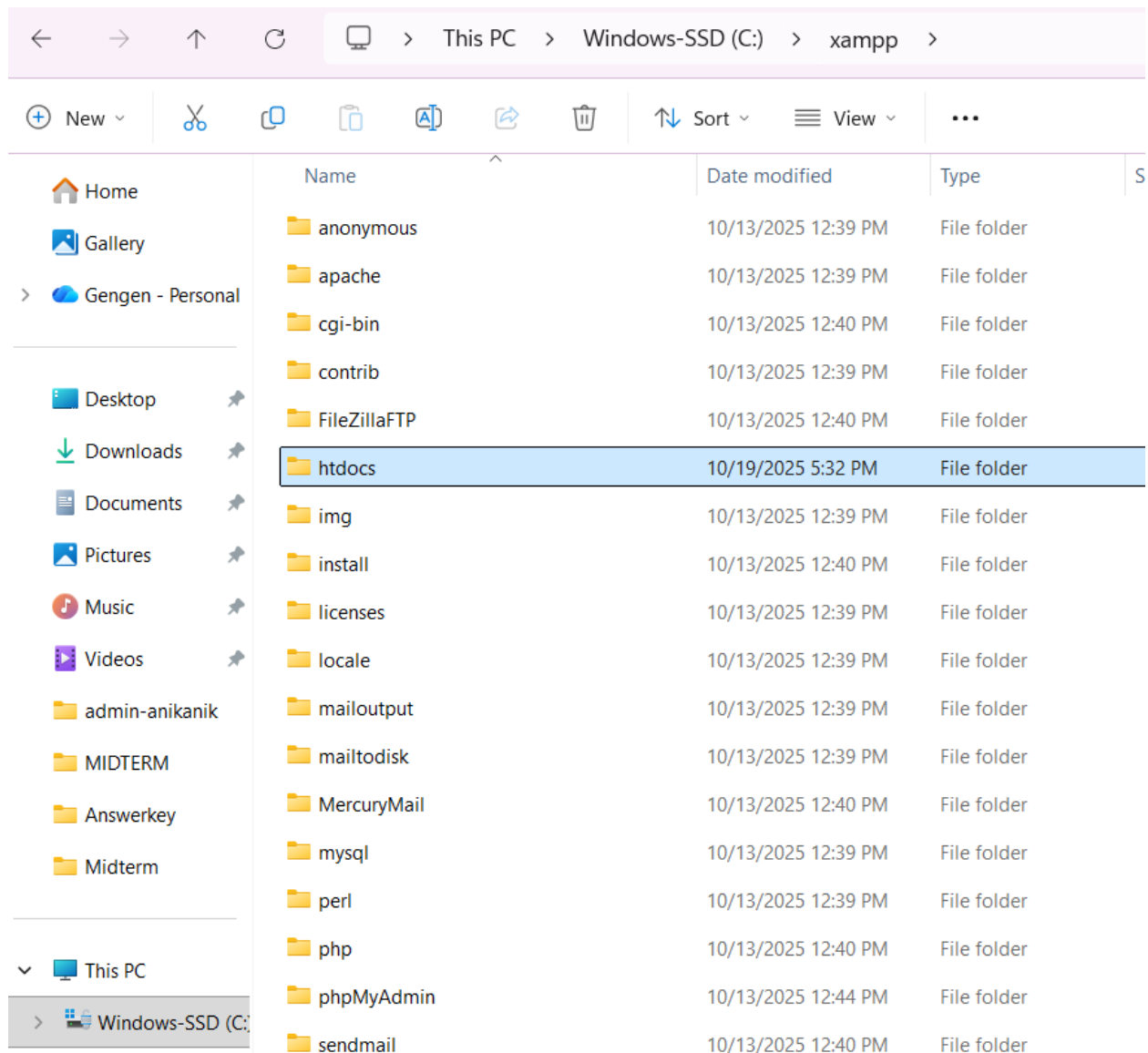


First thing first create a folder inside your XAMPP

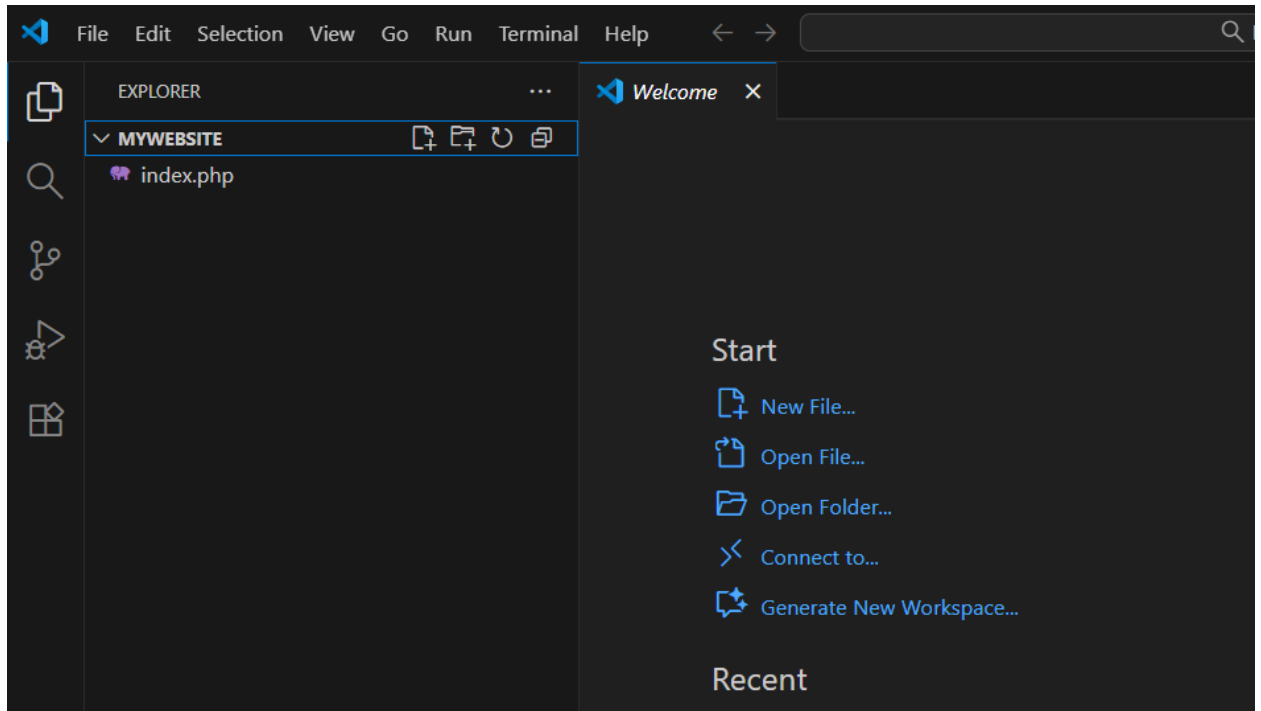
- **Locate your root folder.** Open the XAMPP Control Panel and click the **Explorer** button to navigate to your installation directory, typically **C:\xampp** on Windows.



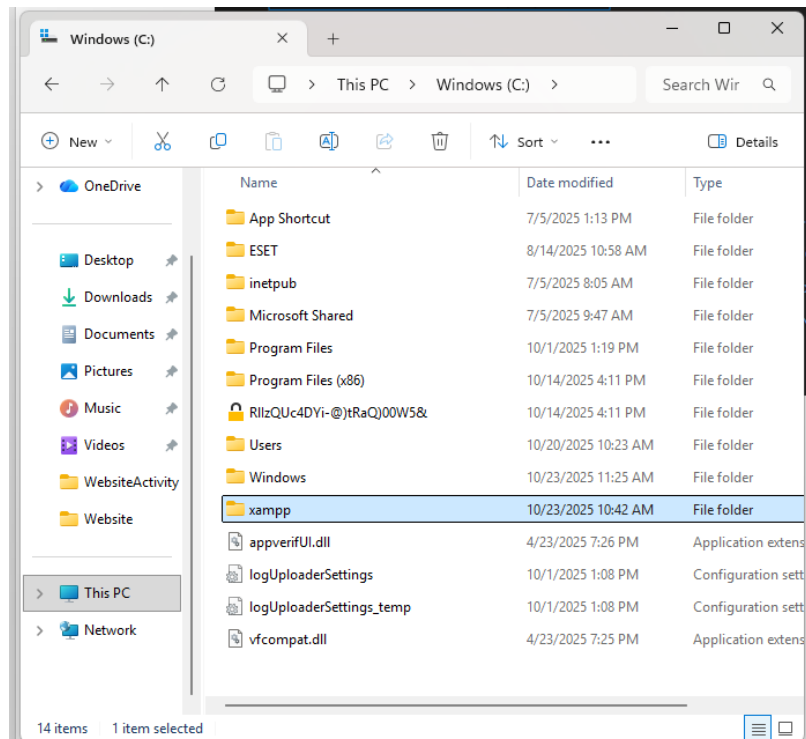
- **Find htdocs.** Open the htdocs folder. This is the root directory for all your web projects.

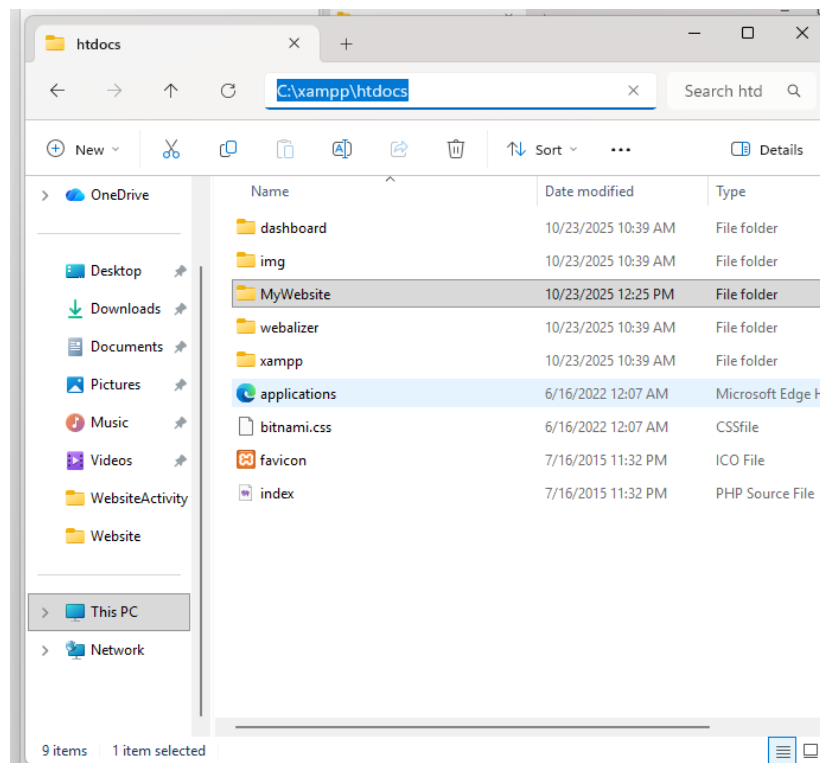
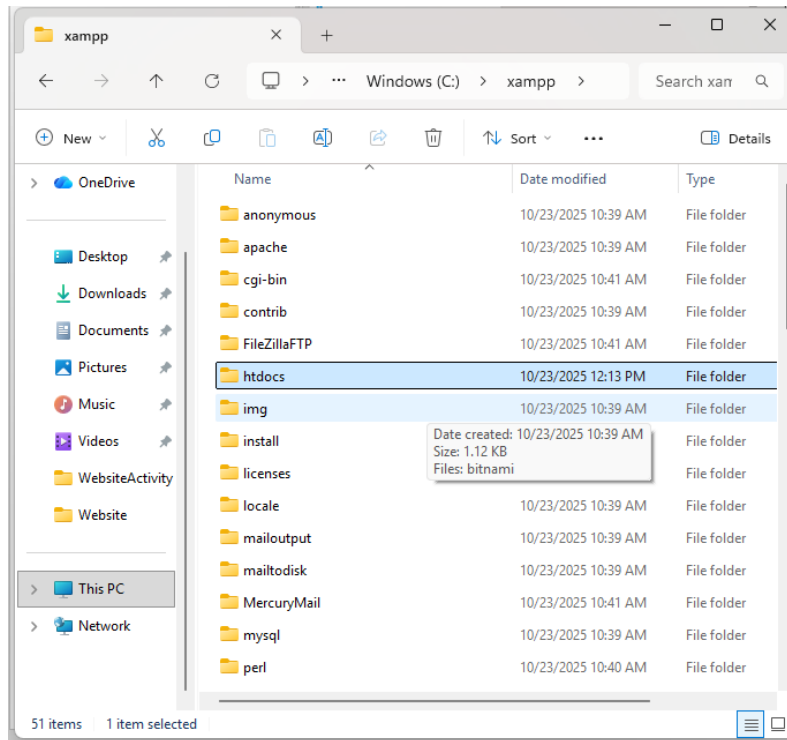


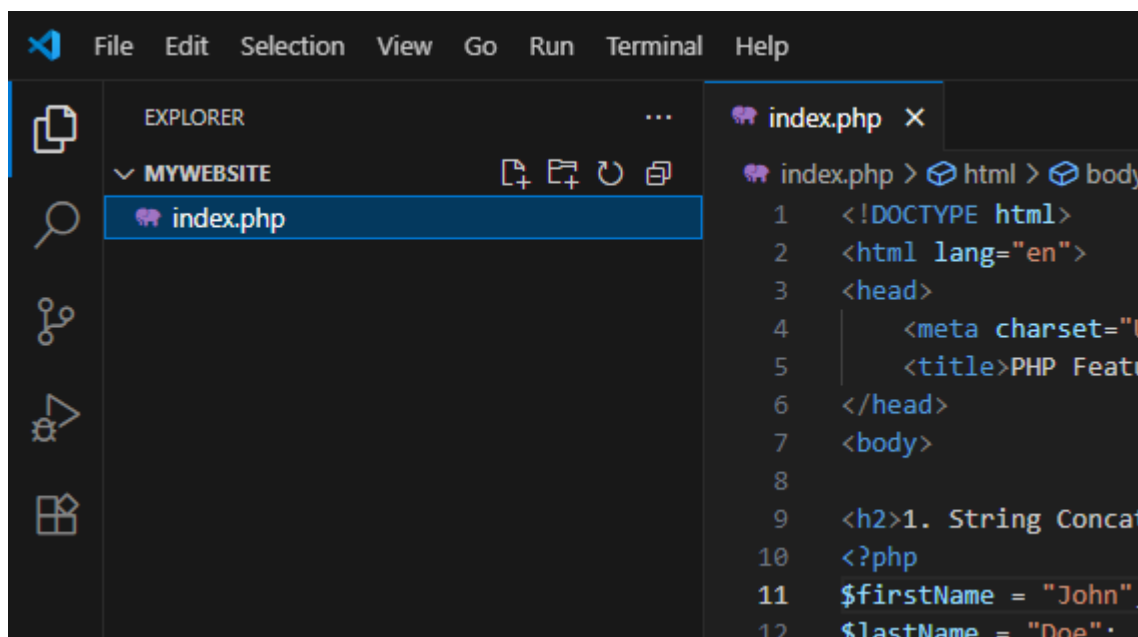
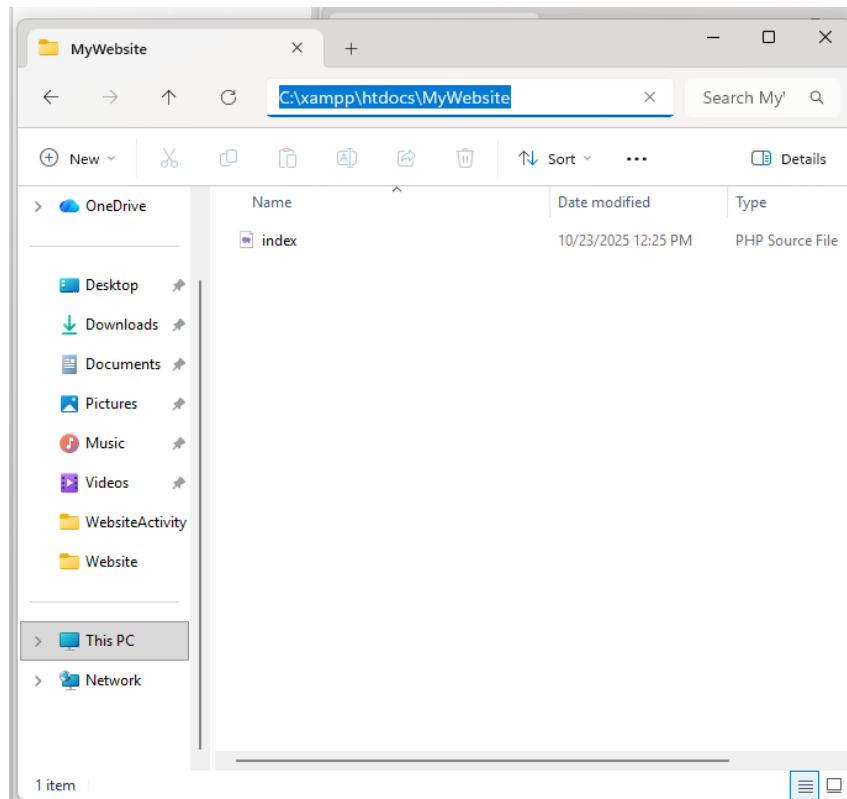
- **Create a project folder.** Create a new folder inside htdocs for your project (e.g., C:\xampp\htdocs\MyWebsite(any name you set)).
- **After creating the Filename inside htdocs, open your VS CODE app then**
- **Then locate this folder as show in the image below**



Answers:







- **Save your projects**
 - you need to save your files in the correct directory.
- Create at least one sample code using the following.
 - Concatenate String

```

<!DOCTYPE html>
<html>
<body>

<?php
$x = "Hi";
$y = "How are you";
$z = $x . $y;
echo $z;
?>

</body>
</html>

```

- Math Functions
 - Loops
 - Constants
 - PHP Superglobals
 - Sample Form Handling
-

```

<!DOCTYPE HTML>
<html>
<body>

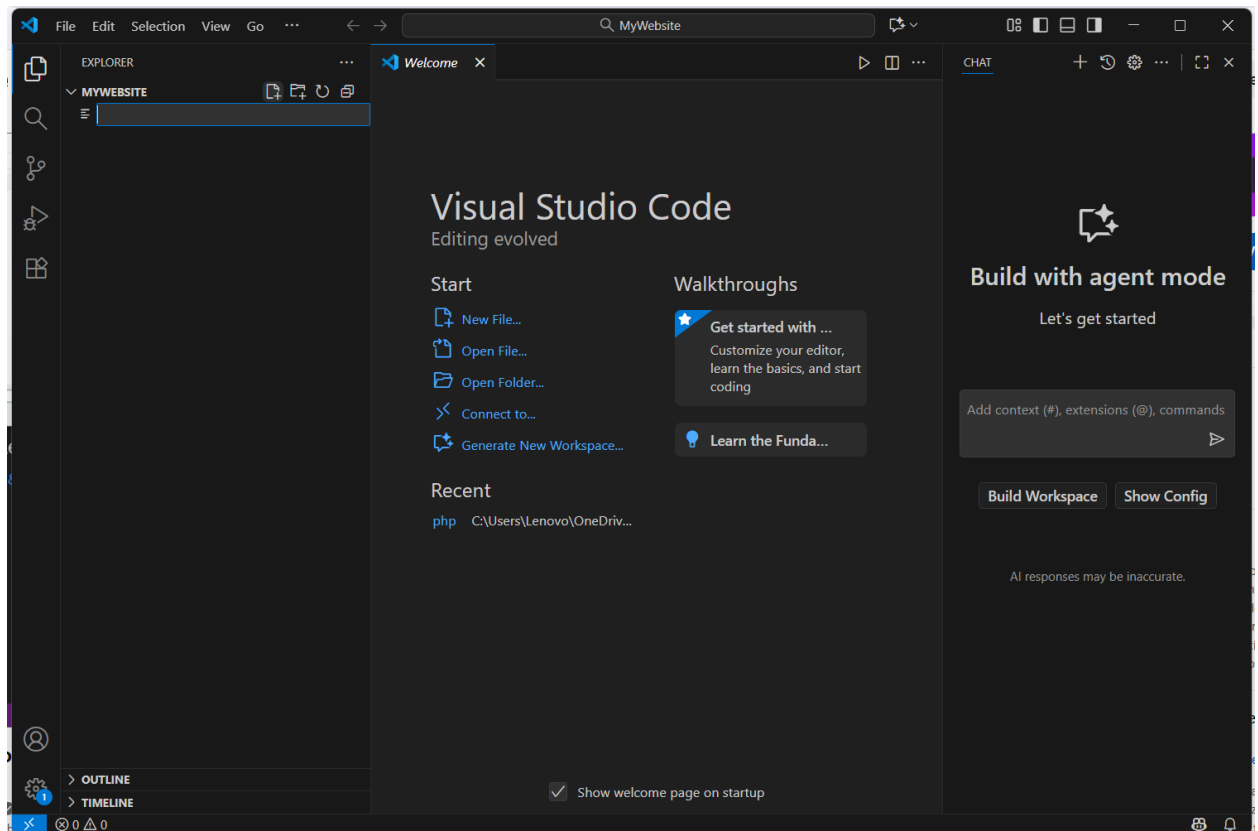
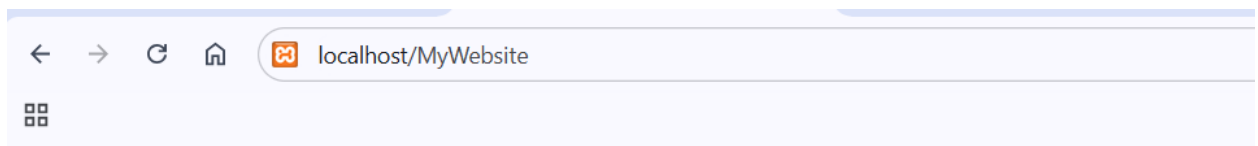
<form action="welcome.php" method="post">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>

</body>
</html>

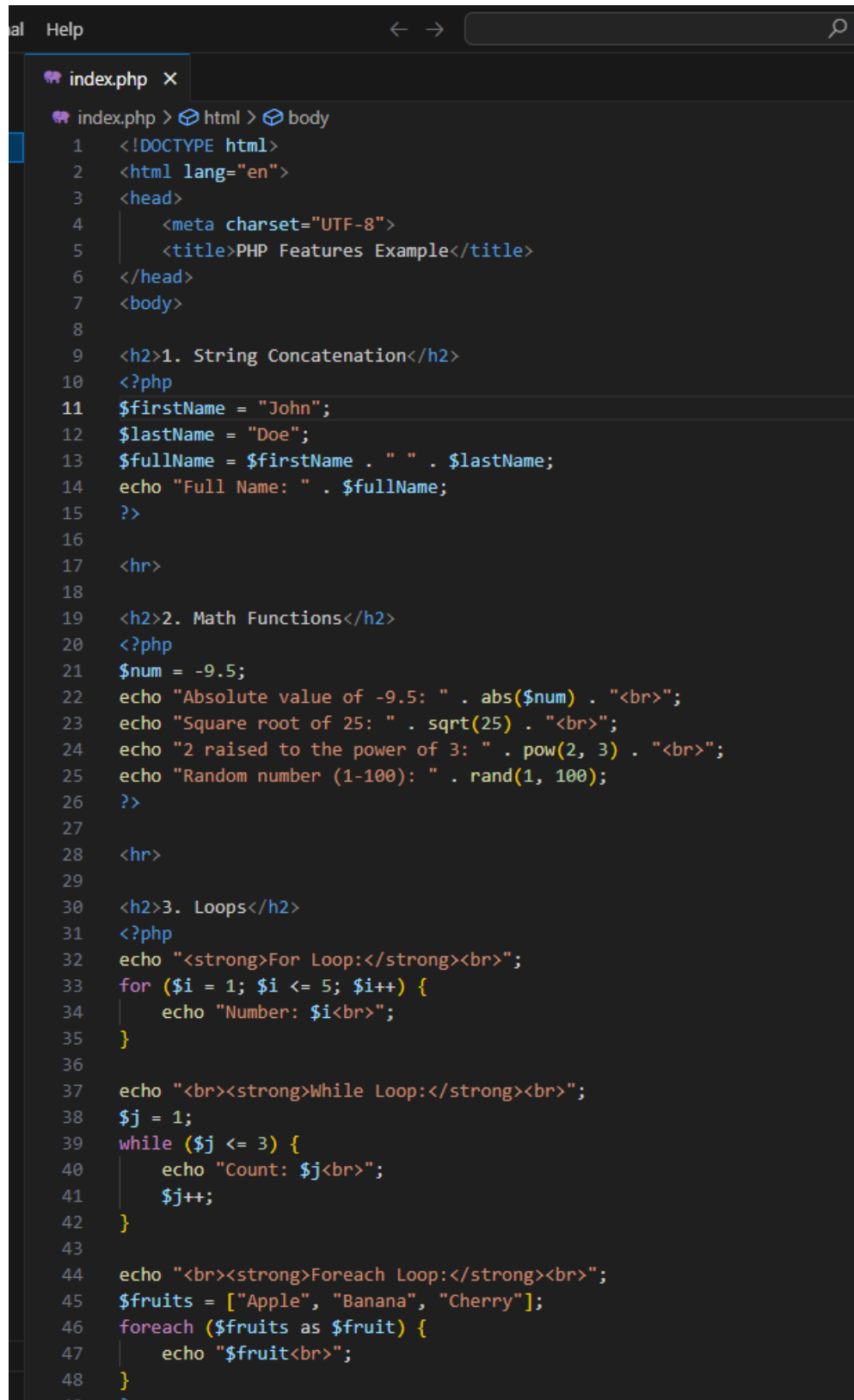
```

Note: Don't forget to save your sample with PHP extension (e.g index.php)

- Display an output for each sample
- **Access your project.** To view your website, go to your browser then type <http://localhost/MyWebsite> (or the name you set) . If you created a specific file, such as index.php, you would visit <http://localhost/MyWebsite/index.php> (or the filename you saved)



Answers:

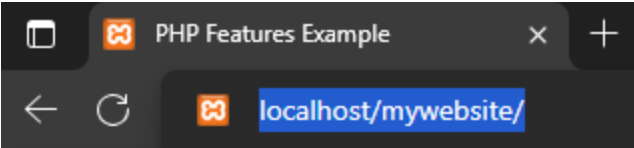


```
al Help
index.php X
index.php > html > body
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <title>PHP Features Example</title>
6 </head>
7 <body>
8
9 <h2>1. String Concatenation</h2>
10 <?php
11 $firstName = "John";
12 $lastName = "Doe";
13 $fullName = $firstName . " " . $lastName;
14 echo "Full Name: " . $fullName;
15 ?>
16
17 <hr>
18
19 <h2>2. Math Functions</h2>
20 <?php
21 $num = -9.5;
22 echo "Absolute value of -9.5: " . abs($num) . "<br>";
23 echo "Square root of 25: " . sqrt(25) . "<br>";
24 echo "2 raised to the power of 3: " . pow(2, 3) . "<br>";
25 echo "Random number (1-100): " . rand(1, 100);
26 ?>
27
28 <hr>
29
30 <h2>3. Loops</h2>
31 <?php
32 echo "<strong>For Loop:</strong><br>";
33 for ($i = 1; $i <= 5; $i++) {
34     echo "Number: $i<br>";
35 }
36
37 echo "<br><strong>While Loop:</strong><br>";
38 $j = 1;
39 while ($j <= 3) {
40     echo "Count: $j<br>";
41     $j++;
42 }
43
44 echo "<br><strong>Foreach Loop:</strong><br>";
45 $fruits = ["Apple", "Banana", "Cherry"];
46 foreach ($fruits as $fruit) {
47     echo "$fruit<br>";
48 }
```

index.php X

index.php > html > body

```
2  <html lang="en">
7  <body>
46 foreach ($fruits as $fruit) {
47     echo "$fruit<br>";
48 }
49 ?>
50
51 <hr>
52
53 <h2>4. Constants</h2>
54 <?php
55 define("SITE_NAME", "My PHP Practice Site");
56 define("PI", 3.14159);
57 echo "Welcome to " . SITE_NAME . "<br>";
58 echo "The value of PI is " . PI;
59 ?>
60
61 <hr>
62
63 <h2>5. PHP Superglobals</h2>
64 <?php
65 echo "Current file path: " . $_SERVER['PHP_SELF'] . "<br>";
66 echo "Server name: " . $_SERVER['SERVER_NAME'] . "<br>";
67 echo "Request method: " . $_SERVER['REQUEST_METHOD'] . "<br>";
68 ?>
69
70 <hr>
71
72 <h2>6. Sample Form Handling</h2>
73 <form method="post" action="">
74     <label>Enter your name:</label>
75     <input type="text" name="username">
76     <input type="submit" value="Submit">
77 </form>
78
79 <?php
80 if ($_SERVER["REQUEST_METHOD"] == "POST") {
81     $name = htmlspecialchars($_POST['username']);
82     if (!empty($name)) {
83         echo "Hello, " . $name . "!";
84     } else {
85         echo "Please enter your name.";
86     }
87 }
88 ?>
89
90 </body>
91 </html>
92
```



PHP Features Example

localhost/mywebsite/

1. String Concatenation

Full Name: John Doe

2. Math Functions

Absolute value of -9.5: 9.5
Square root of 25: 5
2 raised to the power of 3: 8
Random number (1-100): 18

3. Loops

For Loop:
Number: 1
Number: 2
Number: 3
Number: 4
Number: 5

While Loop:
Count: 1
Count: 2
Count: 3

Foreach Loop:
Apple
Banana
Cherry

4. Constants

Welcome to My PHP Practice Site
The value of PI is 3.14159

5. PHP Superglobals

Current file path: /mywebsite/index.php
Server name: localhost
Request method: POST

6. Sample Form Handling

Enter your name:

Hello, Jake!