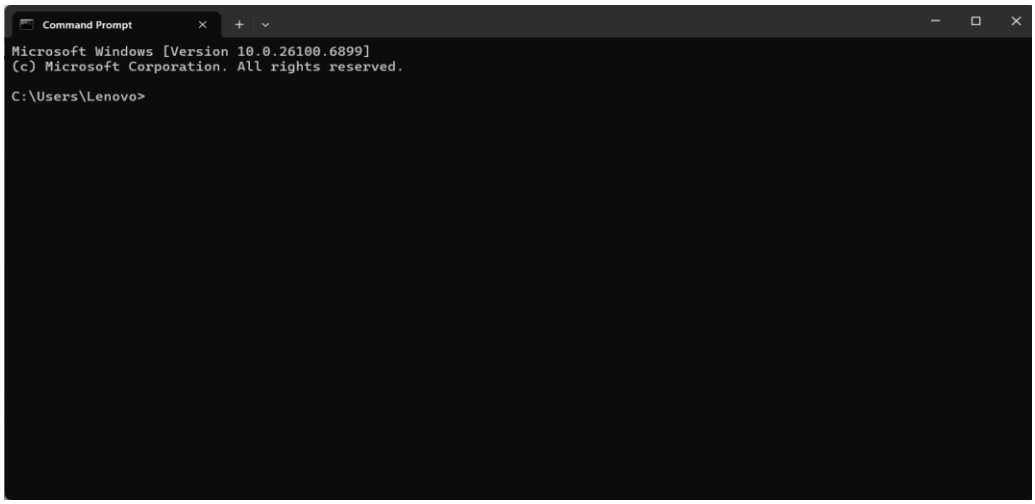
Laboratory Activity
Web Systems and Technology
Midterm

Procedure:

Note: Insert/paste all your screenshots/output inside this document. Then upload it to your github. This is a separate filename : Avtivity 2- 10/28 , and then send to me the link.

- 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 (below)



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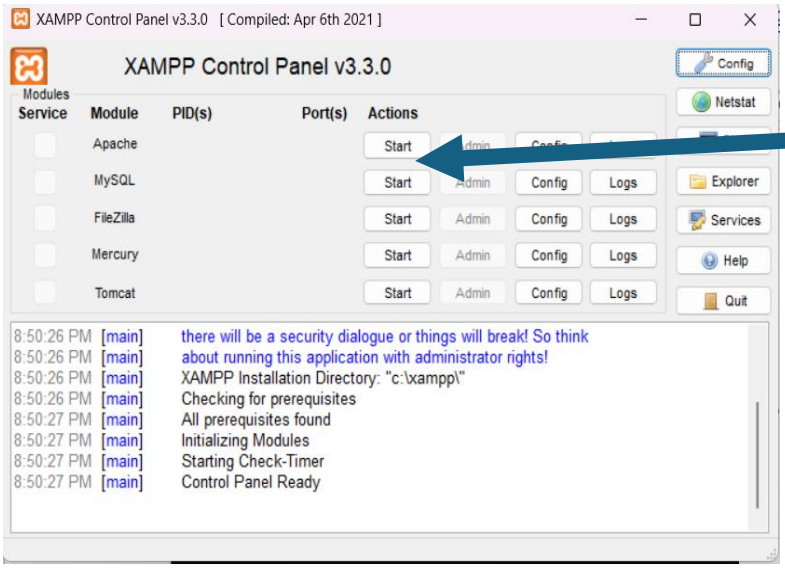
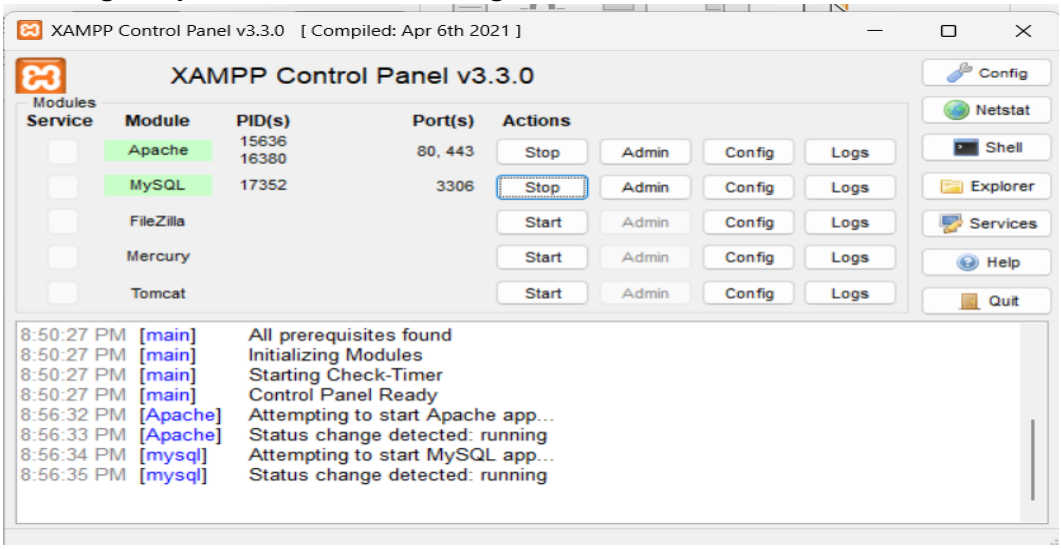
- Then open the XAMPP control panel (see image)

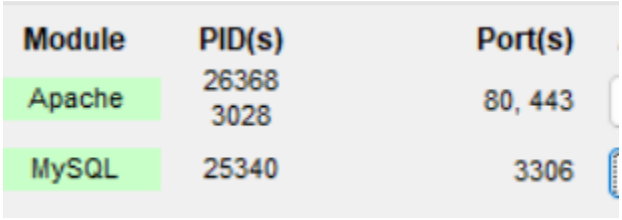


Make sure to click the Start button to open the Apache and MySQL

- Once it green your server is now running

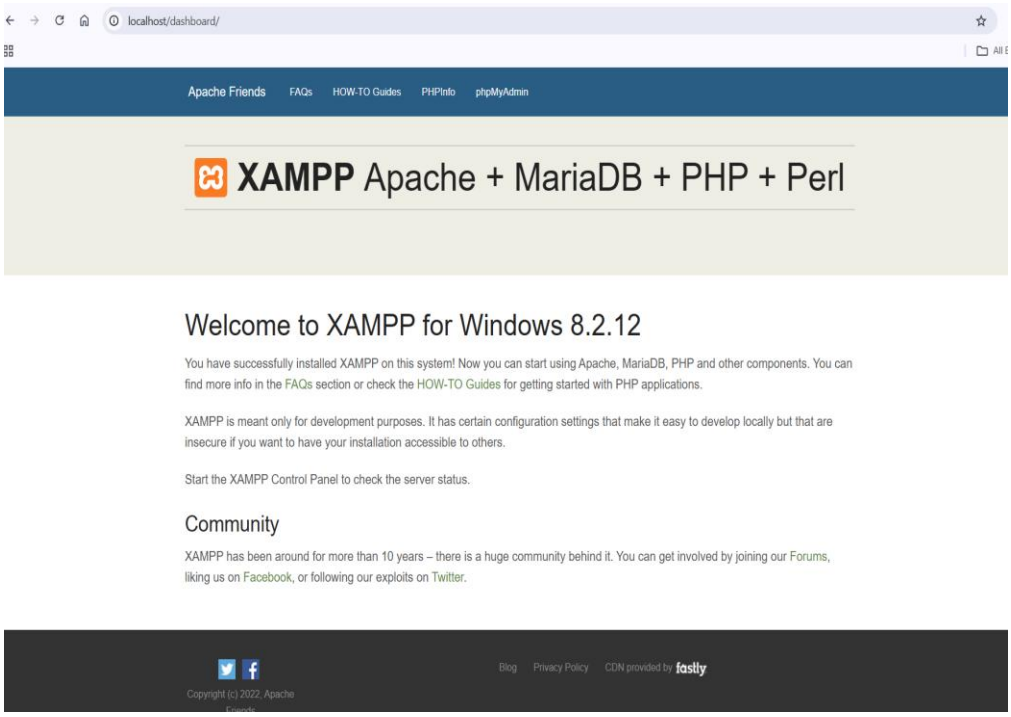


- Make sure to check the ports of Apache and MySQL as follows



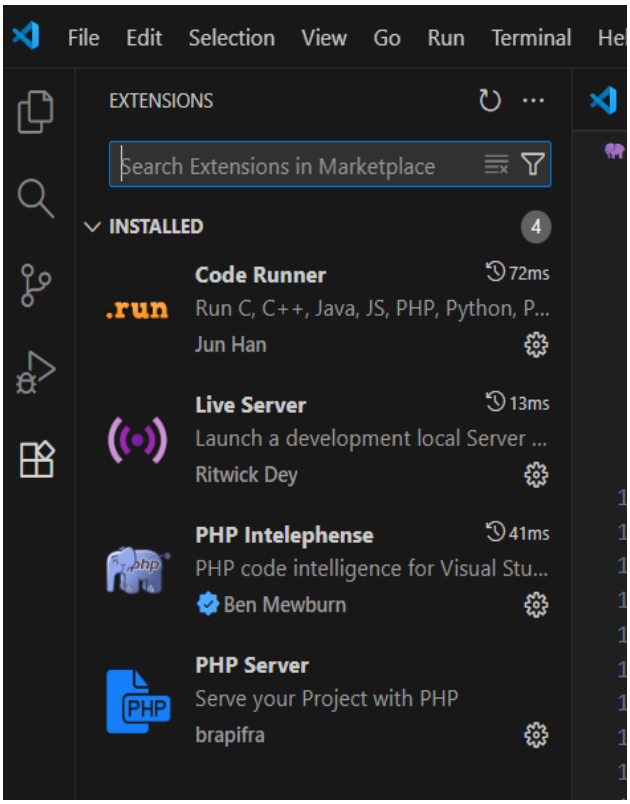
- Your now ready to test your server
- Access the XAMPP dashboard in a browser
    - Open your preferred web browser and type `http://localhost` into the address bar and press **Enter**.

- 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.

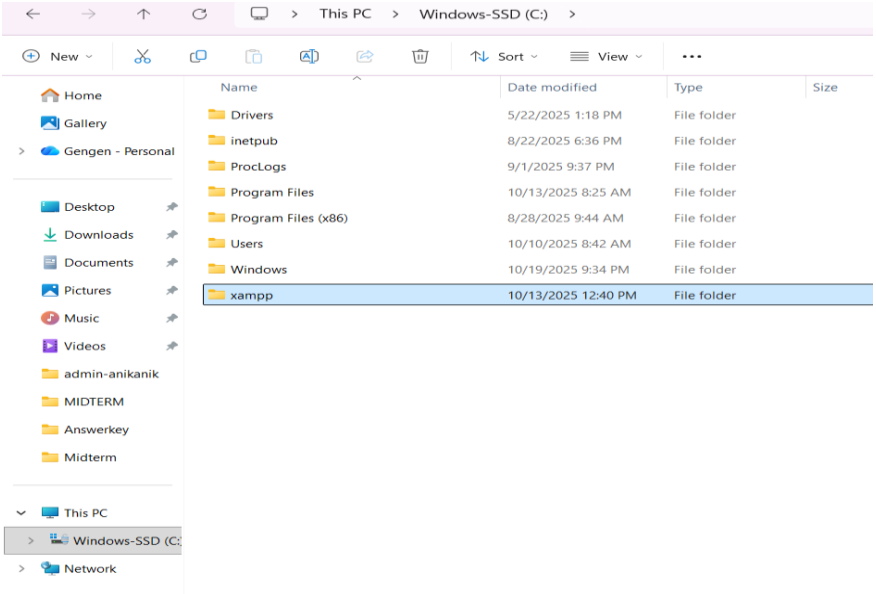
- Next, open your VS code app if the following Extension are available and properly installed
  - PHP server
  - Live server
  - PHP intelephense



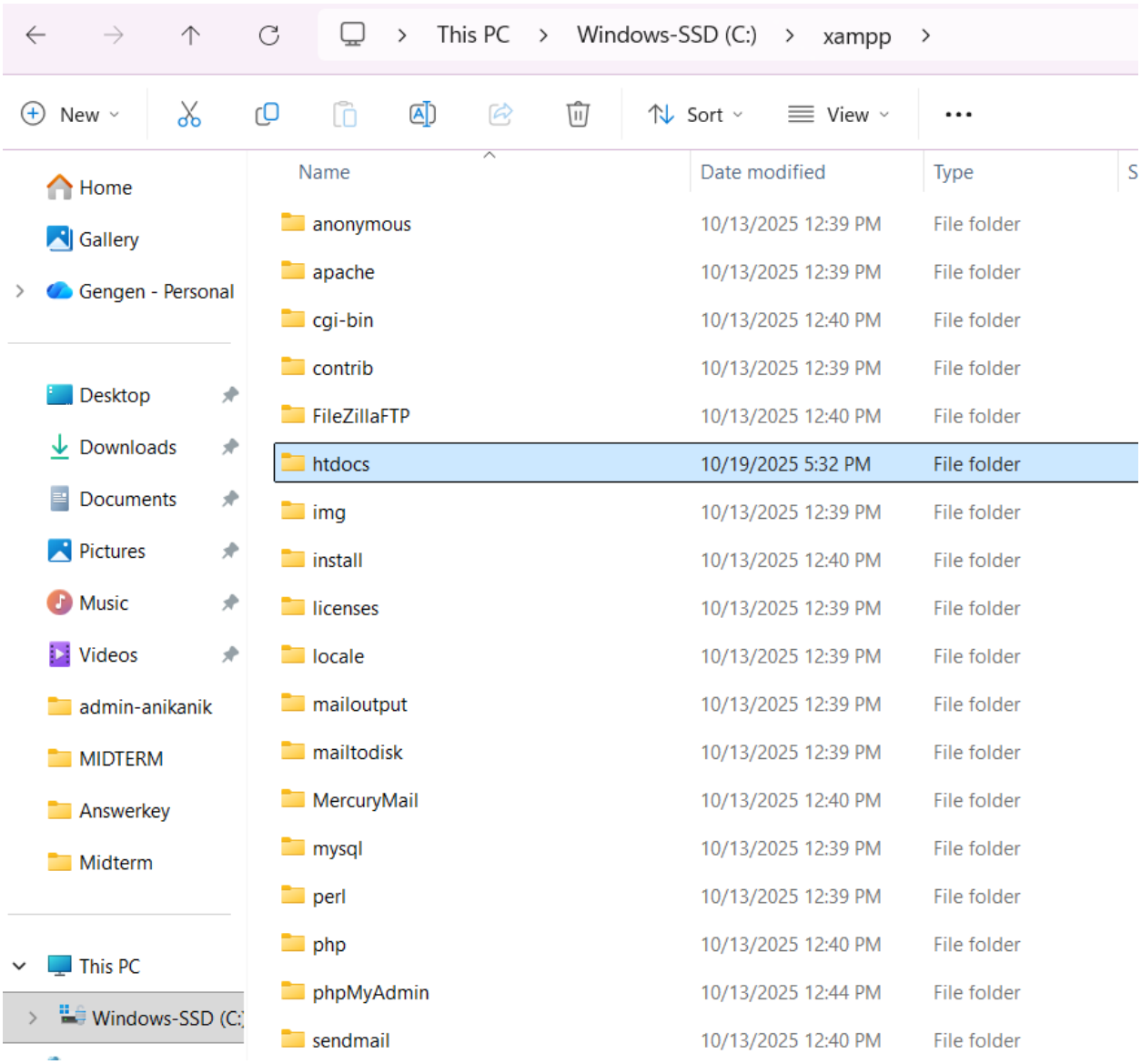
- Once installed start your first PHP code

First thing first create a folder inside your XAMPP

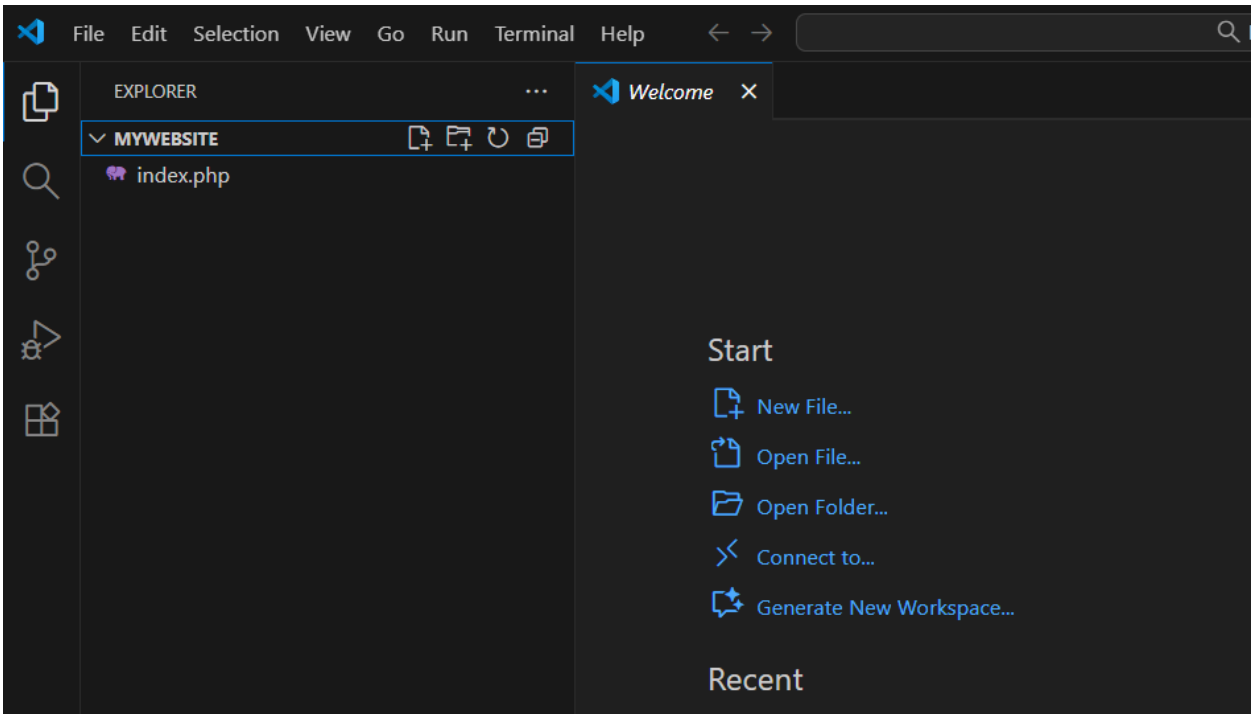
- **Locate your root folder**. Open the XAMPP Control Panel and click the **Explorer** button to navigate to your installation directory, typically **C:\xampp\ on Windows**.



- **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**



- **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

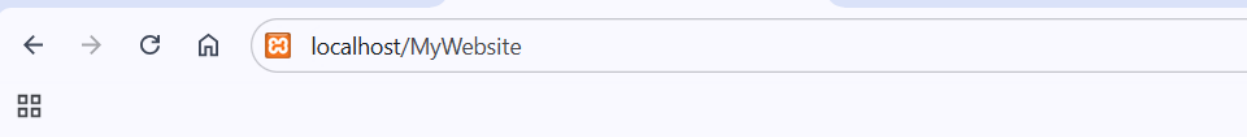
```
<!DOCTYPE HTML>
<html>
<body>

<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)



Math Functions:

Output:

Math Functions: MDASResult: 18

Code:

```php
<!DOCTYPE html>
<html>
    <body>

    <?php
    $a = 10;
    $b = 5;
    $c = 2;

    echo "Math Functions: MDAS";
    $result = $a + $b * $c - ($a / $b);

    echo "Result: " . $result;
    ?>

    </body>
</html>

```

Loops

Code:

```php
<!DOCTYPE html>
<html>
<body>

<?php
$num = 1;

while($num <= 5) {
    echo "Number: $num <br>";
    $num++;
}
?>

</body>
</html>
```

Output:

Number: 1
Number: 2
Number: 3
Number: 4
Number: 5

Constants

Code:

```php
<!DOCTYPE html>
<html>
<body>

<?php
define("GREETING", "Welcome to PHP!");
echo GREETING;
?>

</body>
</html>

```

Outputs:

Welcome to PHP!

PHP Superglobals

Code:

```php
<!DOCTYPE html>
<html>
<body>

<?php
echo "This file is: " . $_SERVER['PHP_SELF'] . "<br>";
echo "Server name: " . $_SERVER['SERVER_NAME'] . "<br>";
echo "User agent: " . $_SERVER['HTTP_USER_AGENT'];
?>

</body>
</html>

```

Outputs:

This file is: /WebSystem1stAct/phpsg.php
Server name: localhost
User agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/141.0.0.0 Safari/537.36

Sample form handling

Code:

```php
<!DOCTYPE html>
<html>
<body>

<form method="post" action="">
  Name: <input type="text" name="name">
  <input type="submit">
</form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST['name'];
    echo "Hello, " . $name . "!";
}
?>

</body>
</html>

```

Outputs: