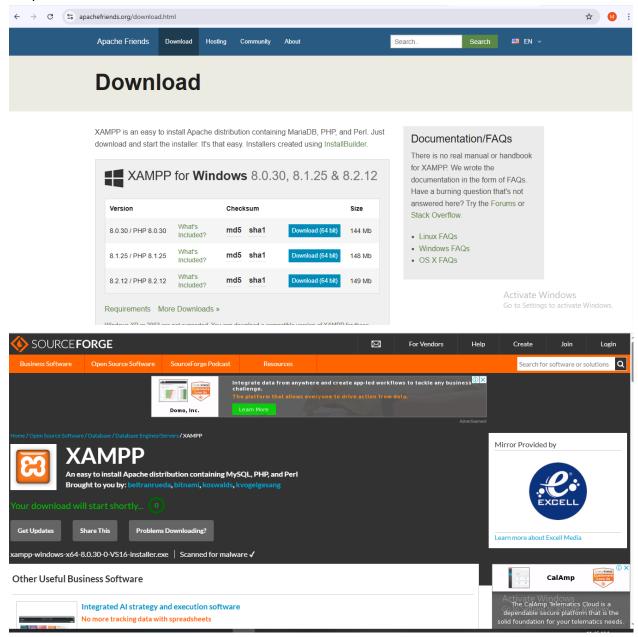
Tab 1

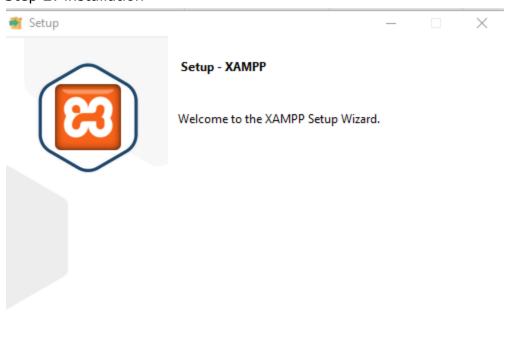
Practical 1: Installing XAMPP server and printing hello in php.

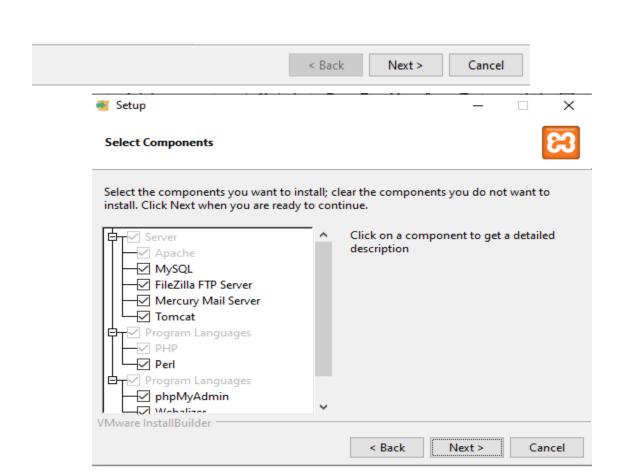
Installing xampp

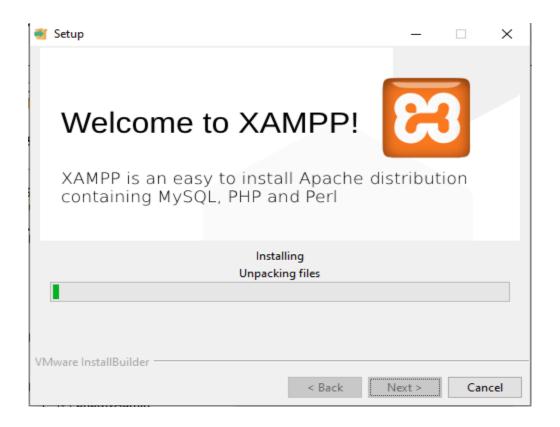
Step1:



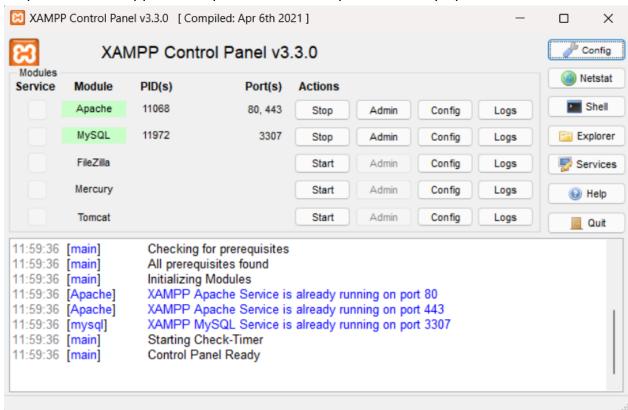
Step 2: installation





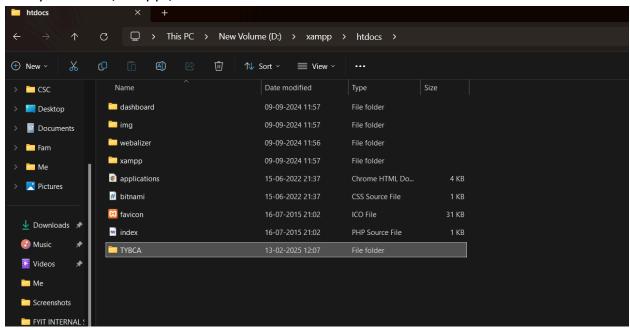


Step 3: start xampp control panel and start apache and mysql



Running php code

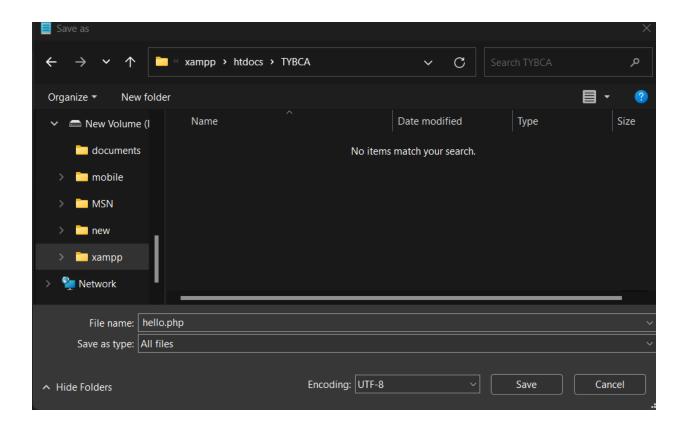
Step 1:
Go to c:/xampp/htdocs and create a folder to store your files
In my case D:\xampp\htdocs



Step 2: Create a file with .php extesion and following code

```
File Edit View

</php
    echo "hello world!!";
?>
```



Step 3: go to the following folder http://localhost/TYBCA/



Step 4: click on the hello.php file to view

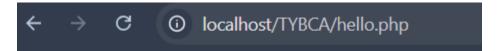


hello world!!

Practical 2: Write a php program to print the sum of digits.

```
<?php
function sumOfDigits($num) {
    return array_sum(str_split($num));
}

$number = 5678;
echo "Sum of digits of $number is: " . sumOfDigits($number);
?>
```



Sum of digits of 5678 is: 26

Practical 3: Program to check prime number.

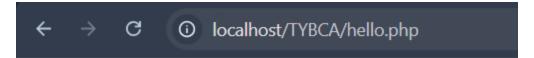
```
<?php
function isPrime($num) {
    if ($num < 2) return false; // 0 and 1 are not prime
    for ($i = 2; $i <= sqrt($num); $i++) {
        if ($num % $i == 0) return false;
    }
    return true;
}

$number = 29;
if (isPrime($number)) {
    echo "$number is a Prime Number";
} else {
    echo "$number is NOT a Prime Number";
}
?>
```



29 is a Prime Number

Practical 4: Program to print factorial of a number.



Factorial of 5 is: 120

Practical 5: Write a PHP program to sort elements in an array in ascending order.

```
<?php
// Define an array
$numbers = array(5, 2, 9, 1, 7, 4);

// Sort the array in ascending order
sort($numbers);

// Display the sorted array
echo "Sorted Array: ";
foreach ($numbers as $num) {
    echo $num . " ";
}
?>
```

Practical 6: Create a PHP program in which two values are submitted using form and calculate its addition, subtraction, multiplication, modulation, average and division on the same page. Find the greatest number between them and square of each of them using PHP function

```
<!DOCTYPE html>
<html>
  <title>PHP Arithmetic Operations</title>
</head>
<body>
  <form method="post">
    Enter First Number: <input type="number" name="num1" required><br>
    Enter Second Number: <input type="number" name="num2" required><br>
    <input type="submit" name="submit" value="Calculate">
  </form>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num1 = $_POST["num1"];
    $num2 = $_POST["num2"];
    // Arithmetic operations
    sum = sum1 + sum2;
    $diff = $num1 - $num2;
    $product = $num1 * $num2;
    $modulus = $num1 % $num2;
    ar = (num1 + num2) / 2;
    $division = ($num2 != 0) ? ($num1 / $num2) : "Undefined (Division by Zero)";
```

```
// Finding the greatest number
    $greatest = ($num1 > $num2) ? $num1 : $num2;
    // Squaring each number
    square1 = pow(snum1, 2);
    $square2 = pow($num2, 2);
    // Display results
    echo "<h3>Results:</h3>";
    echo "Addition: $sum <br>";
    echo "Subtraction: $diff <br>";
    echo "Multiplication: $product <br>";
    echo "Modulus: $modulus <br>";
    echo "Average: $average <br>";
    echo "Division: $division <br>";
    echo "Greatest Number: $greatest <br>";
    echo "Square of $num1: $square1 <br>";
    echo "Square of $num2: $square2 <br>";
</body>
```

Practical 7: Write a PHP program to change background color based on hour of a day.

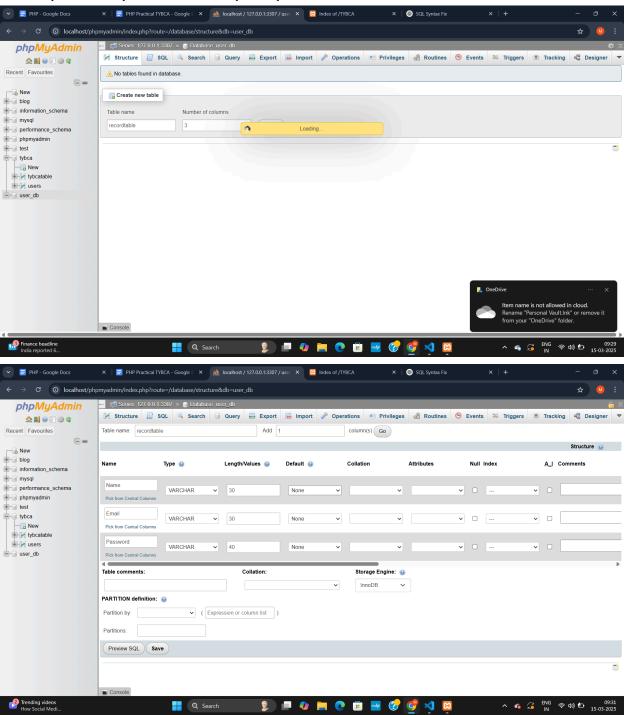
```
<?php
// Get current hour
$hour = date("H");
// Define colors based on time
if ($hour >= 6 && $hour < 12) {
  $bgColor = "#FFD700"; // Morning (Yellow)
} elseif ($hour >= 12 && $hour < 18) {
  $bgColor = "#87CEEB"; // Afternoon (Sky Blue)
} elseif ($hour >= 18 && $hour < 21) {
  $bgColor = "#FF4500"; // Evening (Orange)
} else {
  $bgColor = "#2C3E50"; // Night (Dark Blue)
<!DOCTYPE html>
<head>
  <title>Background Color Change</title>
</head>
<body style="background-color: <?= $bgColor ?>;">
  <h2>Background color changes based on the time of the day</h2>
</body>
</html>
```

Practical 8: Write a PHP Program to create a simple Registration form.

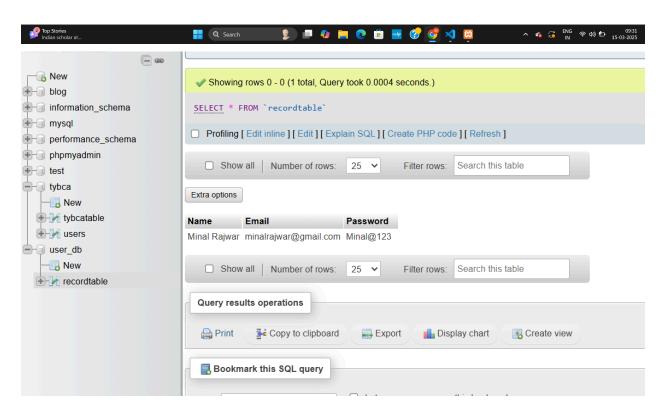
```
<!DOCTYPE html>
<head>
  <title>Registration Form</title>
</head>
<body>
  <form method="post">
    Name: <input type="text" name="name" required><br>
    Email: <input type="email" name="email" required><br>
    Password: <input type="password" name="password" required><br>
     <input type="submit" name="register" value="Register">
  </form>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = htmlspecialchars($_POST["name"]);
    $email = htmlspecialchars($_POST["email"]);
    $password = htmlspecialchars($_POST["password"]); // You may want to hash
this for security
    echo "Registration Successful! < br>";
    echo "Name: $name <br>";
    echo "Email: $email <br>";
</body>
</html>
```

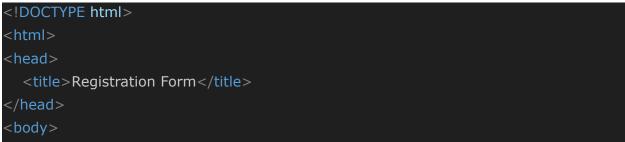
Practical 9: Write a PHP Program to Insert and Display records into the table in database.

Create table into desired database. userdb(database) & recordtable(table):









```
<form method="post">
    Name: <input type="text" name="name" required><br>
    Email: <input type="email" name="email" required><br>
    Password: <input type="password" name="password" required><br>
    <input type="submit" name="register" value="Register">
  </form>
  <?php
  $db_server="localhost";
  $db_user="root";
  $db_pass="";
  $db_name="user_db";
  $db port="3307";
  $conn="";
  try{
    $conn = mysqli_connect($db_server,
                 $db_user,
                 $db_pass,
                 $db name,
                 $db_port);
  catch(mysqli_sql_exception){
    error("could not connect");
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = htmlspecialchars($_POST["name"]);
    $email = htmlspecialchars($_POST["email"]);
    $password = htmlspecialchars($_POST["password"]);
    $sql ="INSERT INTO recordtable (name, email, password) VALUES ('$name',
'$email', '$password')";
    if ($conn->query($sql) === TRUE) {
       echo "New record created successfully";
    } else {
```

```
echo "Error: " . $sql . " < br>" . $conn->error;
}

$sql->close();
}
$conn->close();
?>

</body>
</html>
```

Practical 10: Write a PHP Program to perform various string operations.

```
<?php
$str = "Hello, PHP String Operations!";
echo "Original String: $str <br>";
// String length
echo "Length: " . strlen($str) . "<br>";
// Word count
echo "Word Count: " . str_word_count($str) . "<br>";
// Reverse string
echo "Reversed: " . strrev($str) . "<br>";
// Convert to uppercase
echo "Uppercase: " . strtoupper($str) . "<br>";
// Convert to lowercase
echo "Lowercase: " . strtolower($str) . "<br>";
// Replace a word
echo "Replace 'PHP' with 'Awesome': " . str_replace("PHP", "Awesome", $str) . "<br>";
```

Practical 11: Write a program for creating a user login and logout system with PHP and MySqli.

Step 1: Let's Create registration page for storing the user entered data to database (9record.php)

```
<!DOCTYPE html>
<head>
  <title>Registration Form</title>
</head>
<body>
  <form method="post">
    Name: <input type="text" name="name" required><br>
    Email: <input type="email" name="email" required><br>
    Password: <input type="password" name="password" required><br>
     <input type="submit" name="register" value="Register">
  </form>
  <?php
  include "db.php";
  if ($ SERVER["REQUEST METHOD"] == "POST") {
    $name = htmlspecialchars($_POST["name"]);
    $email = htmlspecialchars($_POST["email"]);
    $password = htmlspecialchars($_POST["password"]);
    $sql ="INSERT INTO recordtable (name, email, password) VALUES ('$name',
'$email', '$password')";
    if ($conn->query($sql) === TRUE) {
       echo "New record created successfully";
       header("Location: login.php");
       exit();
    } else {
       echo "Error: " . $sql . "<br>" . $conn->error;
```

← →	6	localhost/1YBCA/prac10/new/9record.php
Name: Email: Password: Register		

Step 2: Create a Login page where after the details are entered successfully the page should be redirected (login.php)

```
<?php
session_start();
include "db.php";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (!isset($_POST["email"]) || !isset($_POST["password"])) {
        echo "All fields are required!";
        exit();
    }

    $email = mysqli_real_escape_string($conn, $_POST["email"]);
    $password = $_POST["password"];

// DEBUG: Show entered credentials
    // echo "Email entered: $email < br > ";
    // echo "Password entered: $password < br > ";
```

```
$$qI = "SELECT * FROM recordtable WHERE Email='$email'";
  $result = $conn->query($sql);
  if (!$result) {
     die("Query failed: " . $conn->error);
  if ($result->num_rows == 1) {
    $user = $result->fetch_assoc();
    // DEBUG: Show fetched user data
     echo "";
    print_r($user);
     echo "";
    if (isset($user["Password"])) {
       // Plain text comparison
       if ($password === $user["Password"]) {
          $_SESSION["user"] = $user["Name"];
          header("Location: welcome.php");
          exit();
       } else {
          echo "Invalid password!";
    } else {
       echo "Password field missing in database!";
  } else {
     echo "No user found with this email!";
<!DOCTYPE html>
```

```
<title>Login</title>
</head>
<body>
<h2>User Login</h2>
<form method="post">

Email: <input type="email" name="email" required><br>
Password: <input type="password" name="password" required><br>
<input type="submit" value="Login">
</form>
</body>
</html>
```



User Login

Email:		
Passwo	rd:	
Login		

Step 3: Let's create the Welcome page to redirect the user once registered details are logged in successfully (welcome.php)

```
<?php
session_start();
if (!isset($_SESSION["user"])) {
    header("Location: login.php");
    exit();
}
?>
<!DOCTYPE html>
<html>
<head>
    <title>Welcome</title>
</head>
```

```
<body>
  <h2>Welcome, <?php echo $_SESSION["user"]; ?>!</h2>
  This is Welcome page
  <a href="logout.php">Logout</a>
</body>
</html>
```

```
← → C U localhost/TYBCA/prac10/new/welcome.php
```

Welcome, minal!

This is Welcome page Logout

Step 4: Let's create a logout page which would destroy the session and redirect us to the login page.(logout.php)

```
<?php
session_start();
session_destroy();
header("Location: login.php");
exit();
?>
```

Practical 12: Write a program to merge 2 arrays with and without using predefined functions

1. Using Predefined Function: array_merge()

```
<?php
$array1 = [1, 2, 3];
$array2 = [4, 5, 6];

$mergedArray = array_merge($array1, $array2);

echo "Merged Array using array_merge(): ";
print_r($mergedArray);
?>
```

OUTPUT:

```
Merged Array using array_merge(): Array ( [0] => 1[1] => 2[2] => 3[3] => 4[4] => 5[5] => 6 )
```

2. Without Using Predefined Function

```
<?php
$array1 = [1, 2, 3];
$array2 = [4, 5, 6];

$mergedArray = [];

// Copy elements of first array
for ($i = 0; $i < count($array1); $i++) {
    $mergedArray[] = $array1[$i];
}

// Copy elements of second array
for ($j = 0; $j < count($array2); $j++) {
    $mergedArray[] = $array2[$j];
}</pre>
```

```
echo "Merged Array without using array_merge(): ";
print_r($mergedArray);
?>
```

Output:

```
Merged Array without using array_merge(): Array ( [0] \Rightarrow 1[1] \Rightarrow 2[2] \Rightarrow 3[3] \Rightarrow 4[4] \Rightarrow 5[5] \Rightarrow 6)
```

Practical 13: Write a program to create a file in write mode.

```
<?php
$filename = "example.txt";

// Open file in write mode ('w' creates the file if it doesn't exist)
$file = fopen($filename, "w");

if ($file) {
    $content = "Hello, this is a sample text written to the file.\nSecond
line of text.";

    // Write content to file
    fwrite($file, $content);

    // Close the file
    fclose($file);

    echo "File '$filename' created and content written successfully.";
} else {
    echo "Unable to create or write to file.";
}</pre>
```



File 'example.txt' created and content written successfully.

Practical 14: Write a program to read and display contents of file.

```
<?php
$filename = "example.txt";

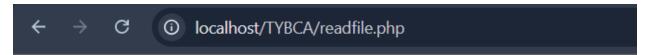
// Open file in read mode ('r')
$file = fopen($filename, "r");

if ($file) {
    echo "Contents of '$filename':<br><";

    // Read file line by line until end of file (EOF)
    while (!feof($file)) {
        $line = fgets($file); // Read a line
        echo nl2br($line); // Convert newline to <br>> for browser

display
    }

    fclose($file);
} else {
    echo "Unable to open file for reading.";
}
?>
```

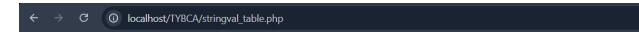


Contents of 'example.txt':

Hello, this is a sample text written to the file. Second line of text.

Practical 15: Write a PHP script to display string, values within a table

```
$data = [
    ["Name" => "Vipul", "Age" => 24, "City" => "Pune"],
];
   <title>Display Data in Table</title>
           border-collapse: collapse;
           width: 50%;
           margin: 20px;
           border: 1px solid black;
           padding: 8px;
           text-align: center;
           background-color: #f2f2f2;
<h2>User Data Table</h2>
```



User Data Table

Name	Age	City
Minal	22	Mumbai
Vipul	24	Pune
Aarti	23	Delhi

Practical 16: Write a PHP script to get the last error.

```
<?php
// Enable error reporting
ini_set('display_errors', 1);
error_reporting(E_ALL);

// Register shutdown function to capture fatal errors
register_shutdown_function('checkLastError');

function checkLastError() {
    Serror = error_get_last();
    if ($error !== NULL) {
        echo "<h3>Last Error Details:</h3>";
        echo "Type: " . $error['type'] . "<br/>echo "Message: " . $error['message'] . "<br/>echo "File: " . $error['file'] . "<br/>echo "Line: " . $error['line'] . "<br/>} else {
        echo "No errors detected.";
    }
}

// Intentionally trigger a fatal error
testUndefinedFunction(); // This function does not exist
?>
```

← → ♂ localhost/TYBCA/lasterror.php

Fatal error: Uncaught Error: Call to undefined function testUndefinedFunction() in D:\ampp\htdocs\TYBCA\lasterror.php:23 Stack trace: #0 {main} thrown in D:\ampp\htdocs\TYBCA\lasterror.php on line 23

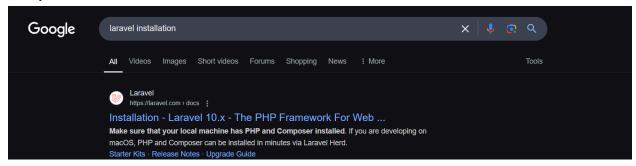
Last Error Details:

Type: 1

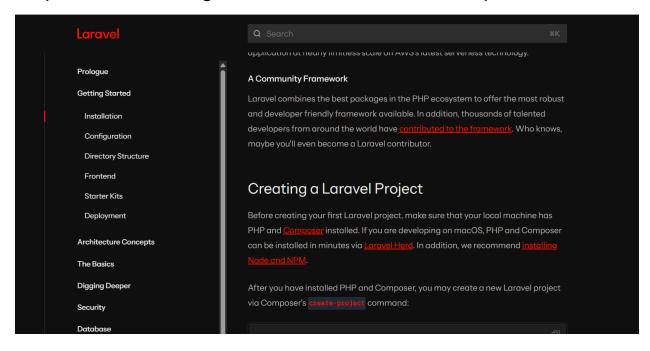
Message: Uncaught Error: Call to undefined function testUndefinedFunction() in D:\xampp\htdocs\TYBCA\lasterror.php:23 Stack trace: #0 {main} thrown File: D:\xampp\htdocs\TYBCA\lasterror.php
Line: 23
Line: 23

Practical 17: Installation of Laravel

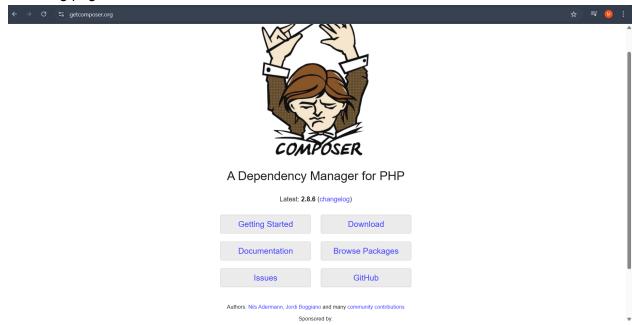
Step 1: Go to:



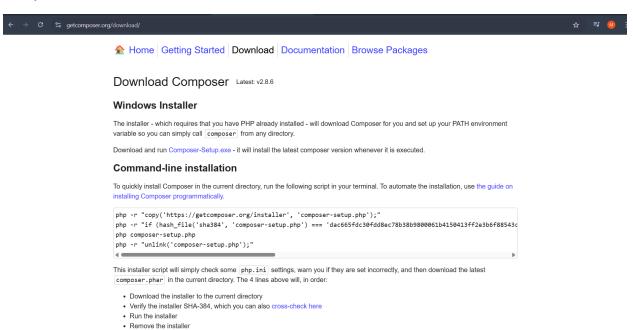
Step 2: Go to Getting Started > Installation > Composer



Following page will be viewed:

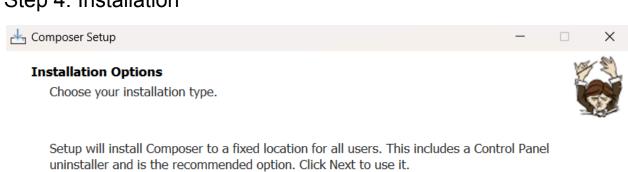


Step 3: Click on Download.



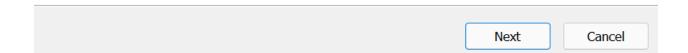
Click on Composer-Setup.exe

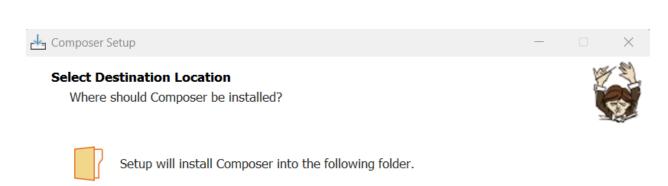
Step 4: Installation



Developer mode

Take control and just install Composer. An uninstaller will not be included.



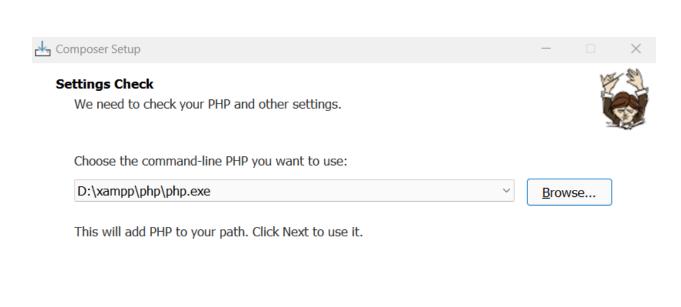


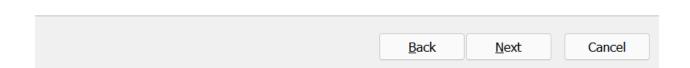
To continue, click Next. If you would like to select a different folder, click Browse.

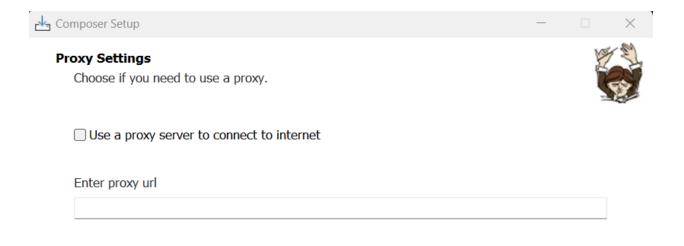
D:\xampp\php\php.exe Browse...

At least 3.3 MB of free disk space is required.

Back Next Cancel







<u>B</u>ack <u>N</u>ext Cancel

Information

Please read the following information before continuing.



Important

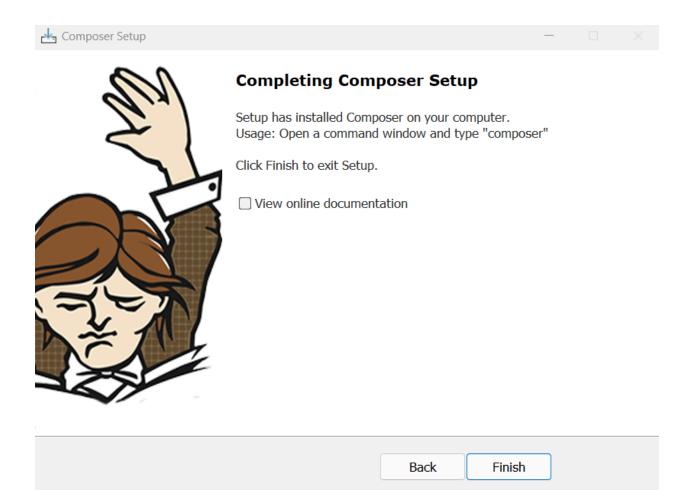
You must open a new command window to use Composer for the first time, because your environment has changed and running programs may not be aware of this.

If this does not work, you will have to do one of the following:

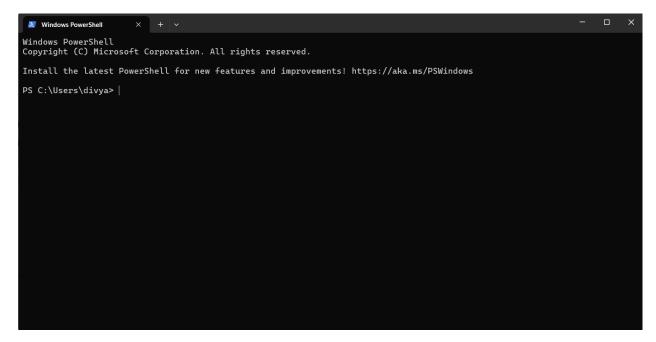
- Close all File Explorer windows, then open a new command window. OR
- Logoff and Logon again, then open a new command window.

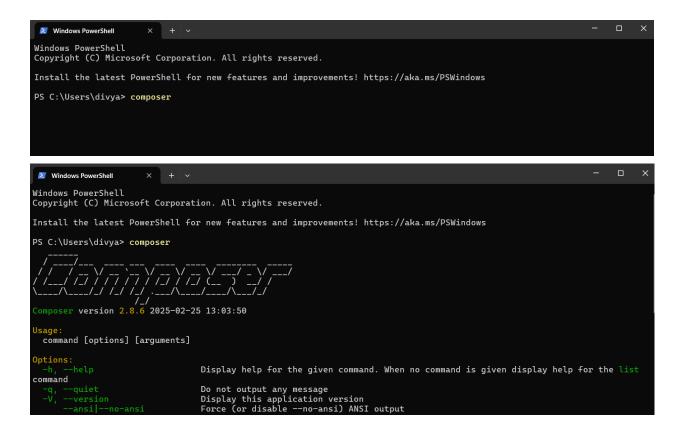
As a last resort, you may need to restart your computer.

Next	

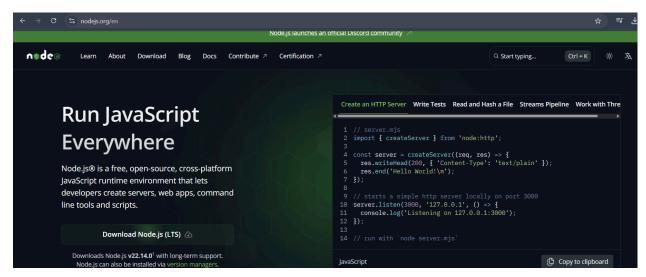


Step 5: Open Terminal

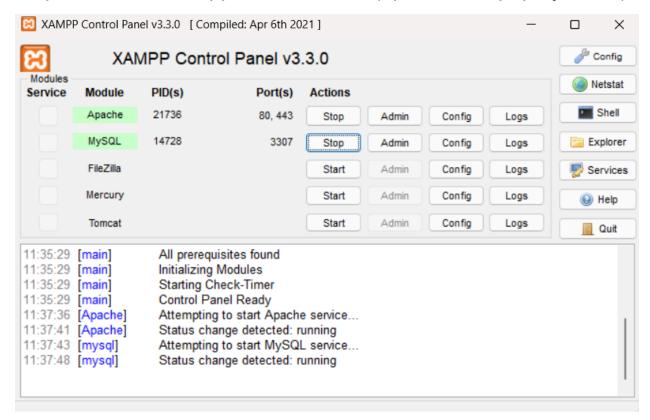




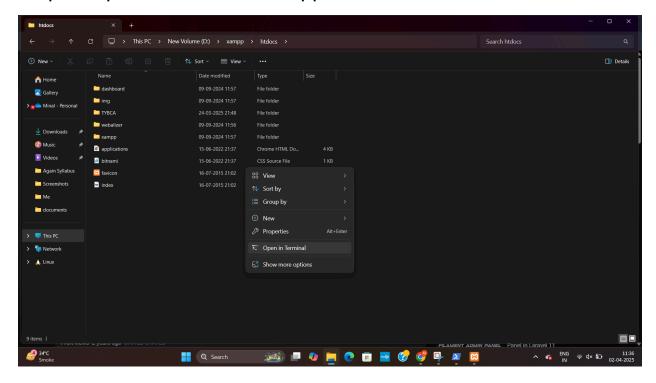
Step 6: Install Node



Step 7: Turn on Xampp Control Panel (apache and phpmyadmin)



Step 8: Open terminal for xampp\htdocs



Write the following code:



Tab 2

Lab: PHP Programming (CMP717)

Practical No.	Practical	Activities
1		Installation of XAMPP Server and print "hello world" in PHP.
2		te a PHP program to print sum of digits.
3		Write a PHP program to check prime number.
4		Write a PHP program to print factorial of a number.
5		Write a PHP program to sort elements in an array in ascending order.
6		Create a PHP program in which two values submitted using form and
		calculate its addition, subtraction, multiplication, modulation, average and division on the same page. Find the greatest number between them and square of each of them using PHP function
7		te a PHP program to change background color based on hour of a day.
8		Write a PHP Program to create a simple Registration form.
9		Write a PHP program to Insert and display records to the table in Database.
10		Write a PHP Program to perform various string operations.
11		Write a program for creating a user login and logout system with PHP and MySqli.
12		Write a program to merge 2 arrays with and without using predefined functions.
13		Write a program to create a file in write mode.
14		Write a program to read and display the contents of file.
15		Write a PHP script to display string, values, within a table.
16		Write a PHP Script to get Last occurred error.
17		Installation of Lavarel.
18		Installation of WordPress(Online/Offline). Acti
19		Miniproject – Design a WordPress website.

Activate Win