

```
<html lang="en">
<head> <title> Prime Number Check </title> </head>
<body>
<form method="POST" action="">
    <label for="number">Enter a number:</label>
    <input type="text" id="number" name="number">
    <button type="submit">Submit</button>
</form>
<?php
if($_SERVER["REQUEST_METHOD"] == "POST"){
    $number = $_POST["number"];
    $isPrime = true;
    if($number < 2){
        $isPrime = false;
    } else {
        for($i = 2; $i <= sqrt($number); $i++){
            if($number % $i == 0){
                $isPrime = false;
                break; // No need to continue checking once a divisor is found
            }
        }
    }
    if($isPrime){
        echo "$number is prime";
    } else {
        echo "$number is not prime";
    }
}
```

```
}  
?>
```

```
</body>
```

```
</html>
```

```
<html lang="en">
```

```
<head> <title> Vowel Checker </title> </head>
```

```
<body>
```

```
    <div class="checker">
```

```
        <form method="POST" action="">
```

```
            <input type="text" name="character" placeholder="Enter a character"  
required><br><br>
```

```
            <button type="submit" name="submit">Check Vowel</button><br><br>
```

```
        </form>
```

```
<?php
```

```
if($_SERVER["REQUEST_METHOD"] == "POST"){
```

```
    $char = $_POST['character'];
```

```
    if(strlen($char) == 1 && ctype_alpha($char)){
```

```
        if($char == "a" || $char == "e" || $char == "i" || $char == "o" || $char == "u" ||
```

```
        $char == "A" || $char == "E" || $char == "I" || $char == "O" || $char == "U"){
```

```
            echo "$char is a vowel";
```

```
        } else {
```

```
            echo "$char is not a vowel";
```

```
        }
```

```
    } else {
```

```
        echo "Please enter a single alphabetic character.";
```

```
    }
```

```
    }  
    ?>  
</div>  
</body>  
</html>
```

Indexed Arrays

```
<html lang="en">  
<head> <title> Array Example </title> </head>  
<body>  
    <?php  
        // Define an indexed array  
        $cars = array("Honda City", "CRV", 23);  
  
        // Print the type and length of the array  
        echo "<h2>Printing the type and length of the array</h2>";  
        echo "<p>";  
        var_dump($cars);  
        echo "</p>";  
  
        // Print the array using print_r statement  
        echo "<h2>Printing the array using print_r statement</h2>";  
        echo "<p>";  
        print_r($cars);  
        echo "</p>";  
  
        // Define another indexed array  
        $cars = array("110", "120", "Santro");
```

```
// Print the elements using a looping structure
echo "<h2>Printing the elements using a looping structure</h2>";
for ($i = 0; $i < count($cars); $i++) {
    echo "Car $i is " . $cars[$i] . "<br>";
}
?>
</body>
</html>
```

```
<html lang="en">
<head> <title> Associative Array </title> </head>
<body>
    <?php
        $cars = array("Hondacity" => 17.7,"CRV" => 10.3,"Jeep" => 13.3);
        var_dump($cars);
        echo"<br><br>";
        echo "<br><h3>Printing the values for each statements</h3>";
        foreach($cars as $key => $value){
            echo"mt $key has $value kilometers(s) milege<br>";
        }
    ?>
</body>
</html>
```

2D arrays Adding values

```
<html lang="en">
<head> <title>2D Arrays</title> </head>
<body>
  <h1>Adding Elements to 2D Array</h1>

  <form method="post" action="">
    <label for="rows">Number of Rows:</label>
    <input type="number" id="rows" name="rows" min="1" required>
    <br><br>
    <label for="cols">Number of Columns:</label>
    <input type="number" id="cols" name="cols" min="1" required>
    <br><br>
    <input type="submit" value="Generate Array">
  </form>
  <br>

  <?php
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    // Get user input for rows and columns
    $rows = (int) $_POST['rows'];
    $cols = (int) $_POST['cols'];

    echo "<h2>Generated 2D Array ($rows x $cols)</h2><br>";

    // Initialize a 2D array with random values
    $newarray = [];
```

```

        for ($i = 0; $i < $rows; $i++) {
            for ($j = 0; $j < $cols; $j++) {
                $newarray[$i][$j] = rand(10, 99);
            }
        }

        // Display the 2D array
        foreach ($newarray as $row) {
            echo implode("***", $row) . "<br><br>";
        }
    }
?>
</body>
</html>

```

```

<html lang="en">
<head> <title> Multiplication Table </title> </head>
<body>
    <h1>Multiplication Table Generator</h1>
    <form method="POST" action="">
        <input type="text" name="number" placeholder="Enter a number" required>
        <input type="text" name="limit" placeholder="Enter a limit" required>
        <button type="submit" name="generate">Generate Table</button>
    </form>
<?php

```

```

if (isset($_POST['generate'])) {
    $number = $_POST['number'];
    $limit = $_POST['limit'];
    if (is_numeric($number) and is_numeric($limit)) {
        echo "<h2>Multiplication Table for $number</h2>";
        //echo "<table>";

        for ($i = 1; $i <= $limit; $i++) {
            $result = $number * $i;
            echo "$number x $i = $result";
            echo "<br>";
        }
        //echo "</table>";
    } else {
        echo "<p>Please enter a valid number.</p>";
    }
}
?>
</body>
</html>

<html lang="en">
<head> <title> MAX 2D Arrays </title> </head>
<body>
    <form method="POST" action="">
        <label for="2darray">Enter 2D Array (e.g., 1,2,3;4,5,6;7,8,9):</label><br>
        <input type="text" id="2darray" name="2darray" required>

```

```
<button type="submit">Submit</button>
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $input = $_POST['2darray'];
    $subarrays = explode(";", $input);
    $twoDArray = [];
    foreach ($subarrays as $subarray) {
        $twoDArray[] = array_map('intval', explode(',', $subarray));
    }
    echo "<pre>";
    print_r($twoDArray);
    echo "</pre>";
    $maxValue = PHP_INT_MIN;
    foreach ($twoDArray as $subArr) {
        foreach ($subArr as $value) {
            if ($value > $maxValue) {
                $maxValue = $value;
            }
        }
    }
    echo "The maximum value in the 2D array is " . $maxValue;
}
?>
</body>
</html>
```



```
<html>
<head> <title> functions </title> </head>
<body>
<form method="POST" action="">
    <label for="number1">Enter number 1:</label><br>
    <input type="text" id="$num1" name="num1" required><br><br>

    <label for="number2">Enter number 2:</label><br>
    <input type="text" id="$num2" name="num2" required><br><br>

    <label for="number3">Enter number 3:</label><br>
    <input type="text" id="$num3" name="num3" required><br><br>

    <button type="submit">Submit</button><br>
</form>
<?php
if($_SERVER["REQUEST_METHOD"]=="POST"){
    $num1 = $_POST['num1'];
    $num2 = $_POST['num2'];
    $num3 = $_POST['num3'];

    function compare($num1,$num2,$num3){

        if($num1 > $num2 && $num1 > $num3){
            echo $num1," is the greatest";
        }
        elseif($num2 > $num1 && $num2 > $num3){
```

```

        echo $num2 ," is the greatest";
    }
    else{
        echo $num3," is the greatest";
    }
}
compare($num1, $num2, $num3);
}
?>

```

```

</body>
</html>

```

```

<html lang="en">
<head> <title> Factorial Calculator </title> </head>
<body>
    <form method="post" action="">
        <label for="number">Enter a number:</label><br>
        <input type="number" id="number" name="number" required><br><br>
        <button type="submit">Calculate Factorial</button><br><br>
    </form>
    <?php
    // Function to calculate factorial
    function factorial($num) {
        if ($num == 0 || $num == 1) {

```

```

        return 1; // Factorial of 0 and 1 is 1
    } else {
        return $num * factorial($num - 1); // Recursive call to calculate factorial
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $number = $_POST["number"];
    $result = factorial($number); // Call the factorial function
    echo "<p>The factorial of $number is $result.</p>";
}
?>
</body>
</html>

```

```

<html lang="en">
<head> <title> Fibonacci Calculator </title> </head>
<body>
    <h1>Fibonacci Number Calculator</h1>
    <form method="post" action="">
        <label for="number">Enter a number:</label>
        <input type="number" id="number" name="number">
        <input type="submit" value="Calculate">
    </form>
    <?php
function fibonacci($n) {
    if ($n <= 1) {

```

```

        return $n;
    }
    return fibonacci($n - 1) + fibonacci($n - 2);
}
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $number = intval($_POST['number']);
    if ($number < 0) {
        echo "<p>Please enter a non-negative integer.</p>";
    } else {
        $result = fibonacci($number);
        echo "<p>The Fibonacci series for $number is: $result</p>";
    }
}
?>
</body>
</html>

```

Last Visit On Site

```

<?php
date_default_timezone_set('Asia/Kolkata');
$cookie_name = "lastVisit";
if(isset($_COOKIE[$cookie_name])) {
    $lastVisit = $_COOKIE[$cookie_name];
    echo "You last visited the website on ";
    echo "<br>";
    echo $lastVisit;
} else {
    echo "This is your first visit to the website.";
}

```

```
$cookie_value = date('Y-m-d H:i:s');  
setcookie($cookie_name, $cookie_value, time() + (30 * 24 * 60 * 60)); // 30 days expiry  
?>
```

Sessions Visited How Many Times

```
<?php  
session_start();  
if (isset($_SESSION['page_views'])) {  
    $_SESSION['page_views'] += 1; // Corrected the operator  
} else {  
    echo "User, Welcome to my page.";   
    $_SESSION['page_views'] = 1;  
}  
echo "You have visited this page " . $_SESSION['page_views'] . " times."; // Concatenation  
correction  
?>
```

```
<html> <head> <title> Student Form </title> </head>  
<body>  
    <form action="insertForm.php" method="post">  
        <label for="name">Name:</label>  
        <input type="text" id="name" name="name" required><br><br>  
  
        <label for="id_number">ID Number:</label>  
        <input type="text" id="id_number" name="id_number" required><br><br>  
  
        <label for="phone_number">Phone Number:</label>  
        <input type="text" id="phone_number" name="phone_number" required><br><br>
```

```

        <input type="submit" value="Submit">
    </form>
</body>
</html>

<?php
$servername = "127.0.0.1"; // Localhost or your server address
$username = "root"; // Your database username
$password = ""; // Your database password
$dbname = "phplab"; // Your database name
$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

$name = $_POST['name'];
$id_number = $_POST['id_number'];
$phone_number = $_POST['phone_number'];
$sql = "INSERT INTO students(name, id_number, phone_number) VALUES ('$name',
'id_number', '$phone_number')";
if ($conn->query($sql) === TRUE) {
    echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();
?>

```

File Uploading

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>File Upload Form</title>
```

```
</head>
```

```
<body>
```

```
  <!-- Form to upload a file -->
```

```
  <form action="fileUploading.php" method="post" enctype="multipart/form-data">
```

```
    <!-- Input for selecting a file -->
```

```
    <label for="file">Choose a file to upload:</label>
```

```
    <input type="file" name="file" id="file"><br><br> <!-- Corrected name attribute -->
```

```

        <!-- Submit button -->

        <button type="submit" name="submit">Upload File</button>

    </form>

</body>

</html>

<?php

if (isset($_POST["submit"])) {
    $name = $_FILES["file"]["name"];
    $tempLoc = $_FILES["file"]["tmp_name"];
    $error = $_FILES["file"]["error"];
    $size = $_FILES["file"]["size"];
    $tempExt = explode(".", $name);
    $fileExt = strtolower(end($tempExt));
    $isAllowed = array("pdf", "png", "docx");

    if (in_array($fileExt, $isAllowed)) {
        if ($error === 0) {
            if ($size <= 2000000) {
                $newFileName = uniqid("", true) . "." . $fileExt;
                $fileDestination = __DIR__ . '/uploads/' . $newFileName;

                if (move_uploaded_file($tempLoc, $fileDestination)) {
                    echo "File uploaded successfully!";
                } else {
                    echo "Failed to move the uploaded file.";
                }
            }
        }
    }
}

```



```
    } else {  
        echo "File is too large. Maximum size allowed is 2MB.";  
    }  
} else {  
    echo "Error during file upload: " . $error;  
}  
} else {  
    echo "File type not allowed. Only PDF and PNG files are allowed.";  
}  
} else {  
    echo "No file submitted.";  
}  
?>
```