```
16. Write a JavaScript program to display the current day and time in the following format. Sample Output
: Today is : Wednesday.
Current time is: 2 PM: 30: 38
=> <!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Current Day and Time</title>
  <script>
   function displayDateTime() {
     const days = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];
     const now = new Date();
     const day = days[now.getDay()];
     const hours = now.getHours();
     const minutes = now.getMinutes();
     const seconds = now.getSeconds();
     const ampm = hours >= 12 ? "PM" : "AM";
     const formattedHours = hours % 12 || 12; // Convert to 12-hour format
     document.getElementById("day").textContent = `Today is : ${day}.`;
     document.getElementById("time").textContent = `Current time is : ${formattedHours} ${ampm} :
${minutes.toString().padStart(2, '0')}: ${seconds.toString().padStart(2, '0')}';
   }
     setInterval(displayDateTime, 1000); // Update every second
 </script>
</head>
<body onload="displayDateTime()">
 <h1>Current Day and Time</h1>
 </body>
</html>
                      Current Day and Time
Output:
```

Today is: Wednesday.

Current time is: 12 AM: 27: 12

```
12.A. Write a java script program to sort 50 natural numbers.
=> <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sort Natural Numbers</title>
  <script>
    function sortNumbers() {
       const numbers = Array.from(\{ length: 50 \}, (\_, i) \Rightarrow i + 1);
       const sortedNumbers = numbers.sort((a, b) \Rightarrow a - b);
       document.getElementById("result").textContent = `Sorted Numbers: ${sortedNumbers.join(", ")}`;
    }
  </script>
</head>
<br/><body onload="sortNumbers()">
  <h1>Sorting 50 Natural Numbers</h1>
  </body>
</html>
Output:
Sorting 50 Natural Numbers
Sorted Numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50
```

B. Write a JavaScript program that accept two integers and display the larger. => <!DOCTYPE html> <html> <head> <title>Larger Number</title> <script> function findLarger() { const num1 = +document.getElementById("num1").value; const num2 = +document.getElementById("num2").value; $document.getElementById("result").textContent = isNaN(num1) \parallel isNaN(num2)$? "Enter valid numbers!" : `The larger number is: \${Math.max(num1, num2)}`; } </script> </head> <body> <h3>Enter two numbers:</h3> <input id="num1" type="number"> <input id="num2" type="number"> <button onclick="findLarger()">Find Larger</button> </body> </html> **Output:**

Enter two numbers:

20 Find Larger

The larger number is: 25

```
13. a. Pattern program
                                                            output:
                                                                    Print Pattern
=> <!DOCTYPE html>
<html>
<head>
  <title>Pattern</title>
</head>
<body>
  <form method="post">
    <button type="submit" name="print">Print Pattern</button>
  </form>
  <?php
  if (isset($_POST['print'])) {
    for ($i = 1; $i <= 5; $i++) echo str_repeat("*", $i) . "<br>";
 }
  ?>
</body>
</html>
B.pattern program:
                                                   output:
=> <!DOCTYPE html>
                                                               Print Pattern
<html>
<head>
  <title>Inverted Pyramid Pattern</title>
</head>
<body>
  <form method="post">
    <button type="submit" name="print">Print Pattern</button>
  </form>
  <?php
  if (isset($_POST['print'])) {
    for ($i = 5; $i >= 1; $i--) {
      echo str_repeat("* ", $i) . "<br>";
    }
 }
  ?>
</body>
</html>
```

```
14. Write PHP code to print Grade card of Student using Switch case.
<!DOCTYPE html>
<html><head>
                                      Grade Card
<title>Student Grade Card</title>
</head>
                                      Student Name: John Doe
<body>
                                      Marks Obtained: 85
 <?php
 $studentName = "John Doe";
                                      Grade: A
 $studentMarks = 85;
  $grade = match (true) {
   $studentMarks >= 90 => "A+",
   $studentMarks >= 80 => "A",
   $studentMarks >= 70 => "B+",
   $studentMarks >= 60 => "B",
   $studentMarks >= 50 => "C",
   default => "F",
 }; ?>
 <h1>Grade Card</h1>
 <strong>Student Name:</strong> <?= $studentName; ?>
 <strong>Marks Obtained:</strong> <?= $studentMarks; ?>
 <strong>Grade:</strong> <?= $grade; ?>
</body>
</html>
```

```
15. Write PHP code to print Fibonacci series.
<!DOCTYPE html> output:
                                     Fibonacci Series:
<html>
<head>
 <title>Fibonacci Series</title>
                                      0 1 1 2 3 5 8 13 21 34
</head>
<body>
 <?php
 $n = 10; // Number of terms in Fibonacci series
 $a = 0; $b = 1; // First two numbers of the series
 echo "<h1>Fibonacci Series:</h1>";
 for ($i = 0; $i < $n; $i++) {
   echo $a . " ";
   next = a + b;
   $a = $b;
   $b = $next;
 }
 echo "";
 ?>
</body>
</html>
17. Write a JavaScript program to print the contents of the current window.
<!DOCTYPE html>
                                         output:
<html>
                                         Content to Print
<head>
  <title>Print Page</title>
                                         This is the content of the current window.
</head>
                                          Print this page
<body>
  <h1>Content to Print</h1>
  This is the content of the current window.
  <button onclick="window.print()">Print this page</button>
</body>
</html>
```

18. Write a JavaScript function that reverses a number.			
Example $x = 32243$;			
Expected Output: 34223			
html	output:	Reverse a Number	
	output.	564	Reverse Number
<html lang="en"></html>		Reversed Number: 465	
<head></head>			
<meta charset="utf-8"/>			
<meta content="width=device-width, initial-scale=1.0" name="viewport"/>			
<title>Reverse Number</title>			
 <body></body>			
<h2>Reverse a Number</h2>			
<input id="numberInput" placeholder="Enter a number" type="number"/>			
<pre><button onclick="document.getElementById('result').innerText = 'Reversed Number: ' + document.getElementById('numberInput').value.split('').reverse().join('')">Reverse Number</button></pre>			

```
19. Write a JavaScript function that checks whether a passed string is palindrome or not?
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Palindrome Checker</title>
</head>
<body>
  <h2>Palindrome Checker</h2>
  <input type="text" id="inputString" placeholder="Enter a string">
  <button onclick="checkPalindrome()">Check</button>
  <script>
    function checkPalindrome() {
      let str = document.getElementById("inputString").value;
      document.getElementById("result").textContent =
        str === str.split(").reverse().join(") ? "Palindrome" : "Not a Palindrome";
    }
  </script>
</body>
</html>
Output:
```

Palindrome Checker

Palindrome Checker

123 Check

121

Check

Not a Palindrome

Palindrome

```
21. Write a JavaScript function to check whether an `input` is an array or not.
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Array Check</title>
  <script>
    function checkInput() {
      const input = document.getElementById('userInput').value;
      try {
        document.getElementById('result').textContent = Array.isArray(JSON.parse(input))? 'It is an array!': 'It is not
an array.';
      } catch {
        document.getElementById('result').textContent = 'It is not an array.';
    }
  </script>
</head>
<body>
  <h1>Check if input is an Array</h1>
  <input id="userInput" placeholder='Enter array like "[1,2,3]"'>
  <button onclick="checkInput()">Check</button>
  </body>
</html>
Output:
Check if input is an Array
                                                          Check if input is an Array
```

1,2,3,4

It is not an array.

Check

[1,2,3,4]

It is an array!

Check

2. Build a HTML form and write PHP code to calculate Largest among three numbers using a) If else b) conditional operator. <!DOCTYPE html> output: <html> Largest Number Calculator <head> Enter Number 1: 15 <title>Largest Number Calculator</title> Enter Number 2: 19 Enter Number 3: 30 </head> Calculate Largest The largest number (using if-else): 30 <body> The largest number (using conditional operator): 30 <h2>Largest Number Calculator</h2> <form method="post" action=""> Enter Number 1: <input type="number" name="num1">
 Enter Number 2: <input type="number" name="num2">
 Enter Number 3: <input type="number" name="num3">
 <input type="submit" value="Calculate Largest"> </form> <?php if (\$_SERVER["REQUEST_METHOD"] == "POST") { \$num1 = \$_POST["num1"]; \$num2 = \$_POST["num2"]; \$num3 = \$_POST["num3"]; // Using if-else if (\$num1 >= \$num2 && \$num1 >= \$num3) { \$largest = \$num1; } elseif (\$num2 >= \$num1 && \$num2 >= \$num3) { \$largest = \$num2; } else { \$largest = \$num3; } echo "The largest number (using if-else): " . \$largest . " < br > "; // Using conditional operator \$largest = (\$num1 >= \$num2) ? ((\$num1 >= \$num3) ? \$num1 : \$num3) : ((\$num2 >= \$num3) ? \$num2 : \$num3); echo "The largest number (using conditional operator): " . \$largest; } ?></body></html>

```
3. Build a HTML from and write PHP code to design a calculator program to show use of +,-,*, operators.
<!DOCTYPE html>
<html>
<head>
  <title>Simple Calculator</title>
</head>
<body>
 <h2>Simple Calculator</h2>
  <form method="post">
    <input type="number" name="num1" placeholder="Enter number 1">
    <select name="operator">
      <option value="+">+</option>
      <option value="-">-</option>
      <option value="*">*</option>
      <option value="/">/</option>
    </select>
    <input type="number" name="num2" placeholder="Enter number 2">
    <input type="submit" value="Calculate">
  </form>
<?php
 if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num1 = $_POST["num1"];
    $num2 = $_POST["num2"];
    $operator = $_POST["operator"];
switch ($operator) {
      case '+':
        $result = $num1 + $num2;
        break;
      case '-':
        $result = $num1 - $num2;
       break;
      case '*':
        $result = $num1 * $num2;
        break;
      case '/':
        if ($num2 == 0) {
```

```
$result = "Division by zero is not allowed.";
       } else {
          $result = $num1 / $num2;
        break;
      default:
        $result = "Invalid operator";
    }
echo "Result: " . $result;
 }
  ?>
</body>
</html>
Output:
   Simple Calculator
   4
                                   + 🗸 | 4
                                                                        Calculate
   Result: 8
7. In a HTML form write a JavaScript function that generates all combinations of a string.
Example string: 'dog'
Expected Output: d,do,dog,o,og,g
                                                                                                      Generate
                                                                           dog
<!DOCTYPE html>
                                                                 output:
<html lang="en">
                                                                           Combinations:
<head>
                                                                          d,o,g, o,g, g
 <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String Combinations</title>
</head>
<body>
  <h2>Generate Combinations</h2>
  <input type="text" id="inputString" value="dog">
  <button onclick="document.getElementById('result').textContent =</pre>
[...document.getElementById('inputString').value].map((_,i,s)=>s.slice(i)).join(', ')">Generate</button>
```

```
<h3>Combinations:</h3>
 </body></html>
8.a. a) Swap two numbers using function in PHP.
 <!DOCTYPE html>
                                                       output:
<html>
                                                                Swap Two Numbers
<head>
                                                                Enter Number 1: 6
 <title>Swap Two Numbers</title>
                                                                Enter Number 2: 4
                                                                Swap
</head>
                                                                Before swapping: Number 1 = 6, Number 2 = 4
                                                                After swapping: Number 1 = 4, Number 2 = 6
<body>
 <h2>Swap Two Numbers</h2>
 <form method="post" action="">
   Enter Number 1: <input type="number" name="num1"><br>
   Enter Number 2: <input type="number" name="num2"><br>
   <input type="submit" value="Swap">
 </form>
<?php
 function swapNumbers(&$num1, &$num2) {
   $temp = $num1;
   $num1 = $num2;
   $num2 = $temp;
 }
if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $num1 = $_POST["num1"];
   $num2 = $_POST["num2"];
echo "Before swapping: Number 1 = " . $num1 . ", Number 2 = " . $num2 . "<br/>br>";
swapNumbers($num1, $num2);
echo "After swapping: Number 1 = " . $num1 . ", Number 2 = " . $num2;
 }
 ?>
</body>
</html>
```

```
8b. b) Factorial of a number using function in PHP.
 <!DOCTYPE html>
                                                       outputFactorial Calculator
<html>
                                                            Enter a number: 5
<head>
                                                             Calculate Factorial
                                                            The factorial of 5 is 120
  <title>Factorial Calculator</title>
</head>
<body>
  <h2>Factorial Calculator</h2>
  <form method="post" action="">
    Enter a number: <input type="number" name="number"><br>
    <input type="submit" value="Calculate Factorial">
  </form>
<?php
 function factorial($number) {
    if ($number == 0) {
      return 1;
    } else {
      return $number * factorial($number - 1);
    }
 }
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $number = $_POST["number"];
    $result = factorial($number);
echo "The factorial of " . $number . " is " . $result;
 }
  ?>
</body>
</html>
9.a. Use recursion to solve the following exercises.
Write a JavaScript program to calculate the factorial of a number.
<!DOCTYPE html>
                                                                    output:
<html lang="en">
                                                                          Factorial Calculator
<head>
 <meta charset="UTF-8">
                                                                                                  Calculate
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
                                                                          Factorial: 120
```

```
<title>Factorial Calculator</title>
 <script>
  function calculateFactorial() {
   let num = document.getElementById("number").value, result = 1;
   if (num < 0) return document.getElementById("output").innerHTML = "Enter a non-negative number.";
   for (let i = 1; i <= num; i++) result *= i;
   document.getElementById("output").innerHTML = `Factorial: ${result}';
 }
 </script>
</head>
<body>
 <h1>Factorial Calculator</h1>
 <input type="number" id="number" placeholder="Enter a number">
 <button onclick="calculateFactorial()">Calculate</button>
 </body>
</html>
9b. Write a JavaScript program to find the greatest common divisor (gcd) of two positive numbers.
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>GCD Calculator</title>
 <script>
  function calculateGCD() {
   let a = +document.getElementById("num1").value, b = +document.getElementById("num2").value;
   if (a <= 0 | | b <= 0) return document.getElementById("output").textContent = "Enter positive numbers.";
   while (b) [a, b] = [b, a \% b];
   document.getElementById("output").textContent = `GCD: ${a}`;
 }
                                                                  output: GCD Calculator
 </script>
</head>
                                                                                                              Calculate
<body>
 <h1>GCD Calculator</h1>
                                                                           GCD: 3
 <input type="number" id="num1" placeholder="First number">
```

```
<input type="number" id="num2" placeholder="Second number">
<button onclick="calculateGCD()">Calculate</button>
</body>
</html>
10.a. In a HTML form using PHP a) Check a number whether it is even or odd.
 <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Even or Odd Checker</title>
</head>
<body>
<h1>Check if a Number is Even or Odd</h1>
<form method="POST">
 <input type="number" name="number" placeholder="Enter a number" required>
 <button type="submit">Check</button>
</form>
<?php
 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
  $num = $_POST['number'];
  echo ($num % 2 == 0) ? "$num is Even" : "$num is Odd";
 }
?>
</body>
</html>
Output:
```

Check if a Number is Even or Odd

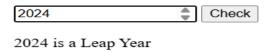
Check if a Number is Even or Odd





```
b. Check a year whether it is leap year or not.
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Leap Year Checker</title>
</head>
<body>
 <h1>Check if a Year is a Leap Year</h1>
 <form method="POST">
  <input type="number" name="year" placeholder="Enter a year" required>
  <button type="submit">Check</button>
 </form>
 <?php
 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
   $year = $_POST['year'];
   if (($year % 4 == 0 && $year % 100 != 0) || $year % 400 == 0) {
    echo "$year is a Leap Year";
  } else {
    echo "$year is not a Leap Year";
  }
 }
 ?>
</body>
</html>
Output:
```

Check if a Year is a Leap Year



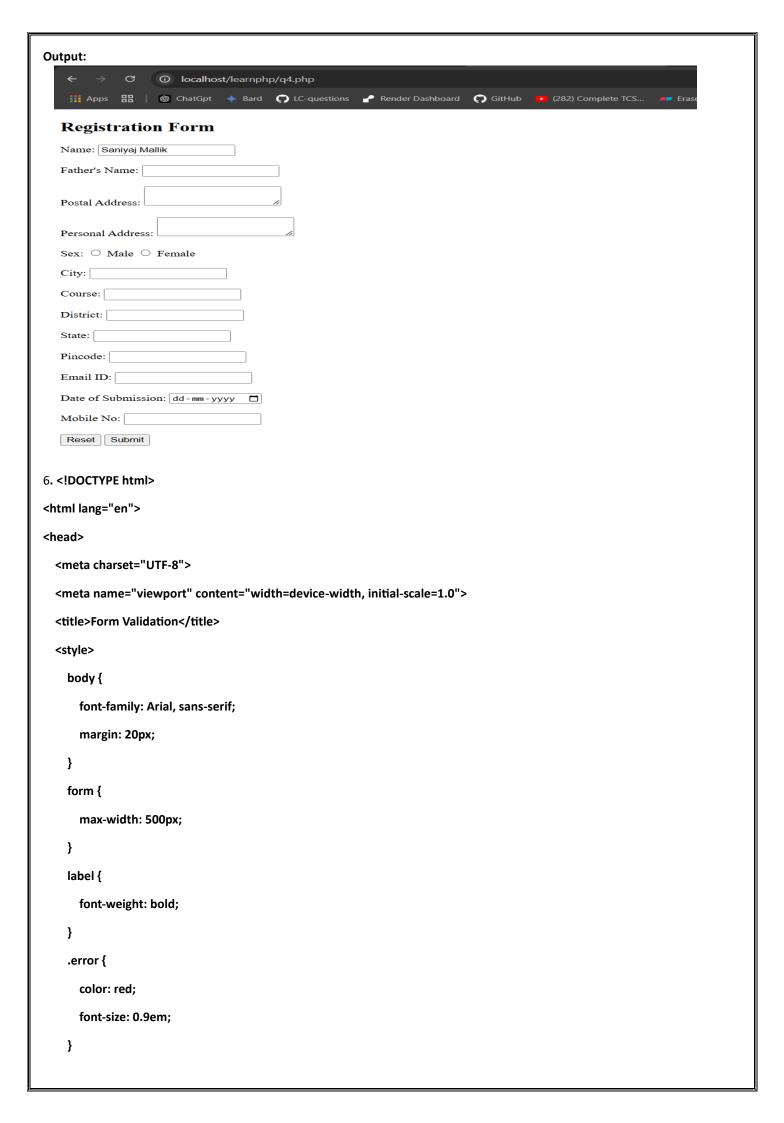
```
Design and validate this form with proper code.
=> <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Form Validation</title>
</head>
<body>
  <h2>User Registration Form</h2>
  <?php
  // Initialize variables for error messages and form data
  $emailErr = $usernameErr = $passwordErr = "";
  $email = $username = $password = "";
if ($ SERVER["REQUEST METHOD"] == "POST") {
    // Email validation
    if (empty($_POST["email"])) {
      $emailErr = "Email is required.";
    } elseif (!filter var($ POST["email"], FILTER VALIDATE EMAIL)) {
      $emailErr = "Invalid email format.";
    } else {
      $email = htmlspecialchars($ POST["email"]);
    }
// Username validation
    if (empty($_POST["username"])) {
      $usernameErr = "Username is required.";
    } elseif (!preg_match("/^[a-zA-Z0-9]*$/", $ POST["username"])) {
      $usernameErr = "Only letters and numbers are allowed.";
    } else {
      $username = htmlspecialchars($ POST["username"]);
    }
// Password validation
    if (empty($_POST["password"])) {
      $passwordErr = "Password is required.";
    } elseif (strlen($_POST["password"]) < 6) {</pre>
      $passwordErr = "Password must be at least 6 characters long.";
    } else {
```

```
$password = htmlspecialchars($_POST["password"]);
    }
// If no errors, display a success message
    if (empty(SemailErr) && empty(SusernameErr) && empty(SpasswordErr)) {
      echo "Form submitted successfully!";
      echo "Email: $email";
      echo "Username: $username";
    }
  }
  ?>
<form method="POST" action="<?php echo htmlspecialchars($ SERVER["PHP SELF"]); ?>">
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" value="<?php echo $email; ?>" required>
    <span style="color: red;"><?php echo $emailErr; ?></span>
    <br>><br>>
<label for="username">Username:</label>
    <input type="text" id="username" name="username" value="<?php echo $username; ?>" required>
    <span style="color: red;"><?php echo $usernameErr; ?></span>
    <br>><br>>
<label for="password">Password:</label>
    <input type="password" id="password" name="password" required>
    <span style="color: red;"><?php echo $passwordErr; ?></span>
    <br>><br>>
<input type="submit" value="Register">
  </form>
</body>
</html>
Output:
                  C O localhost/learnphp/q1.php
            🟢 Apps 🔡 | 🊳 ChatGpt 🔸 Bard 🌎 LC-questions ґ Render Dashboard 🕥 GitHub 📂 (282) Complete TCS... 🗯 Era
           User Registration Form
           Form submitted successfully!
           Email: saniyajmallik12@gmail.com
           Username: saniyajmallik
           Email: saniyajmallik12@gmail.com
           Username: saniyajmallik
           Password:
           Register
```

```
4. <!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Registration Form</title>
</head>
<body>
  <h2>Registration Form</h2>
<?php
  // Initialize error messages and input variables
  $errors = [];
  $inputs = [
    "name" => "", "father_name" => "", "postal_address" => "", "personal_address" => "",
    "sex" => "", "city" => "", "course" => "", "district" => "", "state" => "",
    "pincode" => "", "emailid" => "", "dos" => "", "mobile_no" => ""
  ];
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Sanitize and validate inputs
    foreach ($inputs as $key => &$value) {
      $value = htmlspecialchars(trim($_POST[$key]));
    }
if (empty($inputs["name"])) $errors["name"] = "Name is required.";
    if (empty($inputs["father_name"])) $errors["father_name"] = "Father's Name is required.";
    if (empty($inputs["postal_address"])) $errors["postal_address"] = "Postal Address is required.";
    if (empty($inputs["personal_address"])) $errors["personal_address"] = "Personal Address is required.";
    if (empty($inputs["sex"])) $errors["sex"] = "Sex is required.";
    if (empty($inputs["city"])) $errors["city"] = "City is required.";
    if (empty($inputs["course"])) $errors["course"] = "Course is required.";
    if (empty($inputs["district"])) $errors["district"] = "District is required.";
    if (empty($inputs["state"])) $errors["state"] = "State is required.";
    if (empty($inputs["pincode"]) | | !ctype_digit($inputs["pincode"]) | | strlen($inputs["pincode"]) != 6)
      $errors["pincode"] = "Valid 6-digit Pincode is required.";
    if (empty($inputs["emailid"]) | | !filter_var($inputs["emailid"], FILTER_VALIDATE_EMAIL))
      $errors["emailid"] = "Valid Email ID is required.";
    if (empty($inputs["dos"])) $errors["dos"] = "Date of Submission is required.";
```

```
if (empty($inputs["mobile_no"]) | | !preg_match("/^\d{10}$/", $inputs["mobile_no"]))
      $errors["mobile_no"] = "Valid 10-digit Mobile Number is required.";
// Display success message if no errors
    if (empty($errors)) {
      echo "<h3>Form submitted successfully!</h3>";
      foreach ($inputs as $key => $value) {
        echo "<strong>" . ucfirst(str_replace("_", " ", $key)) . ":</strong> $value";
      }
    }
 }
  ?>
<form method="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" value="<?php echo $inputs['name']; ?>" required>
    <span style="color: red;"><?php echo $errors["name"] ?? ""; ?></span>
    <br><br><
<label for="father_name">Father's Name:</label>
    <input type="text" id="father_name" name="father_name" value="<?php echo $inputs['father_name']; ?>" required>
    <span style="color: red;"><?php echo $errors["father name"] ?? ""; ?></span>
    <br><br>>
<label for="postal_address">Postal Address:</label>
    <textarea id="postal_address" name="postal_address" required><?php echo $inputs['postal_address']; ?></textarea>
    <span style="color: red;"><?php echo $errors["postal_address"] ?? ""; ?></span>
    <br><br>>
<label for="personal_address">Personal Address:</label>
    <textarea id="personal_address" name="personal_address" required><?php echo $inputs['personal_address'];
?></textarea>
    <span style="color: red;"><?php echo $errors["personal_address"] ?? ""; ?></span>
    <br><br>>
<label>Sex:</label>
    <input type="radio" id="male" name="sex" value="Male" <?php if ($inputs['sex'] == 'Male') echo "checked"; ?> required>
Male
    <input type="radio" id="female" name="sex" value="Female" <?php if ($inputs['sex'] == 'Female') echo "checked"; ?>
required> Female
    <span style="color: red;"><?php echo $errors["sex"] ?? ""; ?></span>
    <br><br>>
<label for="city">City:</label>
```

```
<input type="text" id="city" name="city" value="<?php echo $inputs['city']; ?>" required>
    <span style="color: red;"><?php echo $errors["city"] ?? ""; ?></span>
    <br><br><
<label for="course">Course:</label>
    <input type="text" id="course" name="course" value="<?php echo $inputs['course']; ?>" required>
    <span style="color: red;"><?php echo $errors["course"] ?? ""; ?></span>
    <br><br>>
<label for="district">District:</label>
    <input type="text" id="district" name="district" value="<?php echo $inputs['district']; ?>" required>
    <span style="color: red;"><?php echo $errors["district"] ?? ""; ?></span>
    <br><br><
<label for="state">State:</label>
    <input type="text" id="state" name="state" value="<?php echo $inputs['state']; ?>" required>
    <span style="color: red;"><?php echo $errors["state"] ?? ""; ?></span>
    <br><br><
<label for="pincode">Pincode:</label>
    <input type="text" id="pincode" name="pincode" value="<?php echo $inputs['pincode']; ?>" required>
    <span style="color: red;"><?php echo $errors["pincode"] ?? ""; ?></span>
    <br><br><
<label for="emailid">Email ID:</label>
    <input type="email" id="emailid" name="emailid" value="<?php echo $inputs['emailid']; ?>" required>
    <span style="color: red;"><?php echo $errors["emailid"] ?? ""; ?></span>
    <br><br>>
<label for="dos">Date of Submission:</label>
    <input type="date" id="dos" name="dos" value="<?php echo $inputs['dos']; ?>" required>
    <span style="color: red;"><?php echo $errors["dos"] ?? ""; ?></span>
    <br><br><
<label for="mobile_no">Mobile No:</label>
    <input type="text" id="mobile_no" name="mobile_no" value="<?php echo $inputs['mobile_no']; ?>" required>
    <span style="color: red;"><?php echo $errors["mobile_no"] ?? ""; ?></span>
    <br><br>>
<button type="reset">Reset</button>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
```



```
.success {
      color: green;
      font-weight: bold;
    }
  </style>
</head>
<body>
  <h2>Registration Form</h2>
  <?php
 // Initialize error messages and input variables
  $errors = [];
  $inputs = [
    "name" => "", "email" => "", "contact_number" => "", "city" => "", "description" => ""
 ];
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Sanitize and validate inputs
    foreach ($inputs as $key => &$value) {
      $value = htmlspecialchars(trim($_POST[$key]));
    }
// Validate Name
    if (empty($inputs["name"])) {
      $errors["name"] = "Name is required.";
    } elseif (!preg_match("/^[a-zA-Z\s]+$/", $inputs["name"])) {
      $errors["name"] = "Name can only contain letters and spaces.";
    }
// Validate Email
    if (empty($inputs["email"])) {
      $errors["email"] = "Email is required.";
    } elseif (!filter_var($inputs["email"], FILTER_VALIDATE_EMAIL)) {
      $errors["email"] = "Invalid email format.";
    }
// Validate Contact Number
    if (empty($inputs["contact_number"])) {
      $errors["contact_number"] = "Contact number is required.";
    } elseif (!preg_match("/^\d{10}$/", $inputs["contact_number"])) {
```

```
$errors["contact_number"] = "Contact number must be a 10-digit number.";
    }
// Validate City
    if (empty($inputs["city"])) {
      $errors["city"] = "City is required.";
    }
// Validate Description
    if (empty($inputs["description"])) {
      $errors["description"] = "Description is required.";
    } elseif (strlen($inputs["description"]) > 500) {
      $errors["description"] = "Description must not exceed 500 characters.";
    }
// Display success message if no errors
    if (empty($errors)) {
      echo "Form submitted successfully!";
      foreach ($inputs as $key => $value) {
        echo "<strong>" . ucfirst(str_replace("_", " ", $key)) . ":</strong> $value";
      }
    }
  }
<form method="POST" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name" value="<?php echo $inputs['name']; ?>" required>
    <span class="error"><?php echo $errors["name"] ?? ""; ?></span>
    <br><br><
<label for="email">Email ID:</label><br>
    <input type="email" id="email" name="email" value="<?php echo $inputs['email']; ?>" required>
    <span class="error"><?php echo $errors["email"] ?? ""; ?></span>
    <br><br>>
<label for="contact_number">Contact Number:</label><br>
    <input type="text" id="contact_number" name="contact_number" value="<?php echo $inputs['contact_number']; ?>"
required>
    <span class="error"><?php echo $errors["contact_number"] ?? ""; ?></span>
    <br><br>>
<label for="city">City:</label><br>
    <input type="text" id="city" name="city" value="<?php echo $inputs['city']; ?>" required>
```

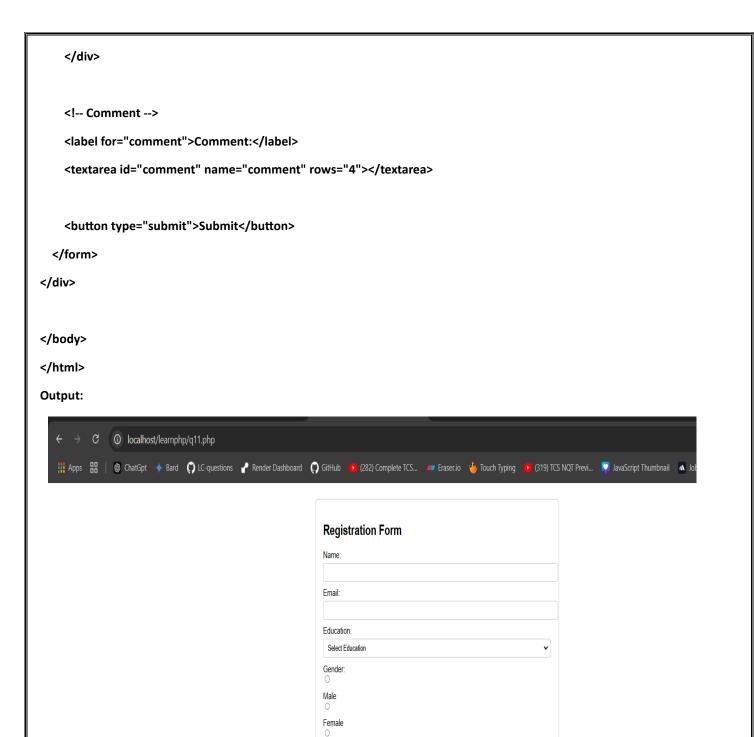
```
<span class="error"><?php echo $errors["city"] ?? ""; ?></span>
   <br><br>>
<label for="description">Description:</label><br>
   <textarea id="description" name="description" rows="4" maxlength="500" required><?php echo $inputs['description'];
?></textarea>
   <span class="error"><?php echo $errors["description"] ?? ""; ?></span>
   <br><br>>
<button type="reset">Reset</button>
   <button type="submit">Submit</button>
 </form>
</body>
</html>
Output:
      \rightarrow C ① localhost/learnphp/q6.php
  Apps 🔡 | 🚳 ChatGpt 💠 Bard 🌎 LC-questions 💣 Render Dashboard 🌎 GitHub 🔼 (282) Complete TCS...
  Registration Form
  Form submitted successfully!
  Name: Saniyaj Mallik
  Email: saniyajmallik12@gmail.com
  Contact number: 222222222
  City: kolkata
  Description: kolkata
  Name:
  Saniyaj Mallik
  Email ID:
  saniyajmallik12@gmail.com
  Contact Number:
  City:
  kolkata
  Description:
   kolkata
  Reset Submit
11. <!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Form Validation</title>
 <style>
   body {
     font-family: Arial, sans-serif;
```

```
padding: 20px;
}
.form-container {
  max-width: 600px;
  margin: auto;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 8px;
}
label {
  margin-top: 10px;
 display: block;
}
input[type="text"],
input[type="email"],
textarea,
select {
 width: 100%;
  padding: 8px;
  margin-top: 5px;
  border: 1px solid #ccc;
  border-radius: 4px;
}
.checkbox-group input {
  margin-right: 10px;
}
button {
  margin-top: 20px;
  padding: 10px 15px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 4px;
  cursor: pointer;
button:hover {
```

```
background-color: #45a049;
  }
  .error {
    color: red;
    font-size: 14px;
  }
</style>
<script>
  function validateForm() {
    // Reset errors
    let isValid = true;
    let errorMessage = "";
    // Name validation
    let name = document.getElementById("name").value;
    if (name.trim() == "") {
      errorMessage += "Name is required.\n";
      isValid = false;
    }
    // Email validation
    let email = document.getElementById("email").value;
    let emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
    if (email.trim() == "") {
      errorMessage += "Email is required.\n";
      isValid = false;
    } else if (!emailPattern.test(email)) {
      errorMessage += "Please enter a valid email address.\n";
      isValid = false;
    }
    // Education validation
    let education = document.getElementById("education").value;
    if (education == "") {
      errorMessage += "Education is required.\n";
      isValid = false;
```

```
}
      // Gender validation
      let gender = document.querySelector('input[name="gender"]:checked');
      if (!gender) {
        errorMessage += "Gender is required.\n";
        isValid = false;
      }
      // Hobbies validation
      let hobbies = document.querySelectorAll('input[name="hobbies[]"]:checked');
      if (hobbies.length === 0) {
        errorMessage += "Please select at least one hobby.\n";
        isValid = false;
      }
      // Comment validation
      let comment = document.getElementById("comment").value;
      if (comment.trim() == "") {
        errorMessage += "Comment is required.\n";
        isValid = false;
      }
      if (!isValid) {
        alert(errorMessage);
      }
      return isValid;
    }
  </script>
</head>
<body>
<div class="form-container">
 <h2>Registration Form</h2>
  <form onsubmit="return validateForm()">
```

```
<!-- Name -->
<label for="name">Name:</label>
<input type="text" id="name" name="name">
<!-- Email -->
<label for="email">Email:</label>
<input type="email" id="email" name="email">
<!-- Education -->
<label for="education">Education:</label>
<select id="education" name="education">
  <option value="">Select Education</option>
  <option value="High School">High School</option>
  <option value="Bachelor's Degree">Bachelor's Degree</option>
  <option value="Master's Degree">Master's Degree
  <option value="PhD">PhD</option>
</select>
<!-- Gender -->
<label>Gender:</label>
<input type="radio" id="male" name="gender" value="Male">
<label for="male">Male</label>
<input type="radio" id="female" name="gender" value="Female">
<label for="female">Female</label>
<input type="radio" id="other" name="gender" value="Other">
<label for="other">Other</label>
<!-- Hobbies -->
<label>Hobbies:</label>
<div class="checkbox-group">
  <input type="checkbox" id="drawing" name="hobbies[]" value="Drawing">
  <a href="drawing">Drawing</a>label>
  <input type="checkbox" id="singing" name="hobbies[]" value="Singing">
  <label for="singing">Singing</label>
  <input type="checkbox" id="dancing" name="hobbies[]" value="Dancing">
  <label for="dancing">Dancing</label>
```



Other Hobbies:

Drawing

Singing

Dancing

Comment:

Submit