

# Web and Mobile Application

## Slip Solution

### Slip No:1

**Q1. Write a javascript code to reverse a given number (Handle onClick event) [15 Marks ]**

```
<!DOCTYPE html>

<html>

<head>

  <title>Number Reversal</title>

  <script>
    function reverseNumber() {
      var number = document.getElementById("numberInput").value;
      var numberArray = number.toString().split("");
      var reversedArray = numberArray.reverse();
      var
reversedNumber=parseInt(reversedArray.join(""));
      document.getElementById("result").innerHTML = "Reversed  Number: " +
reversedNumber;
    }
  </script>

</head>

<body>

  <label for="numberInput">Enter a number:</label>

  <input type="number" id="number Input">

  <button onclick="reverse  Number()">Reverse</button>

  <p id="result"></p>

</body>

</html>
```

## Output:

---

## Number Reversal

Enter a number:

Reversed Number: 321

**Q2. Write a Kotlin application to accept the details of Employee (Eno, Ename, Salary) and display it.**

```
import java.util.Scanner

data class Employee(val eno: Int, val ename: String, val salary: Double)

fun main() {
    val scanner = Scanner(System.`in`)
    println("Enter Employee Details:")
    print("Employee Number: ")
    val eno = scanner.nextInt()
    print("Employee Name: ")
    val ename = scanner.next()
    print("Salary: ")
    val salary = scanner.nextDouble()
    val employee = Employee(eno, ename, salary)
    println("\nEmployee Details:")
    println("Employee Number: ${employee.eno}")
    println("Employee Name: ${employee.ename}")
    println("Salary: ${employee.salary}")

    scanner.close()
}
```

## Slip No:2

**Q1. Write a javascript code to validate given name, if it is invalid then display the message “Name is Invalid” otherwise display it by using alert() dialog box. [15 Marks ]**

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Name Validation</title>

  <script>

    function validateName() {

      var name = document.getElementById("name").value;

      var nameRegex = /^[a-zA-Z ]+$/;

      if (nameRegex.test(name)) {

        alert("Name is valid: " + name);

      } else {

        alert("Name is invalid. Please enter only letters and spaces.");

      }

    }

  </script>

</head>

<body>

  <h2>Name Validation</h2>

  <label for="name">Enter your name:</label>

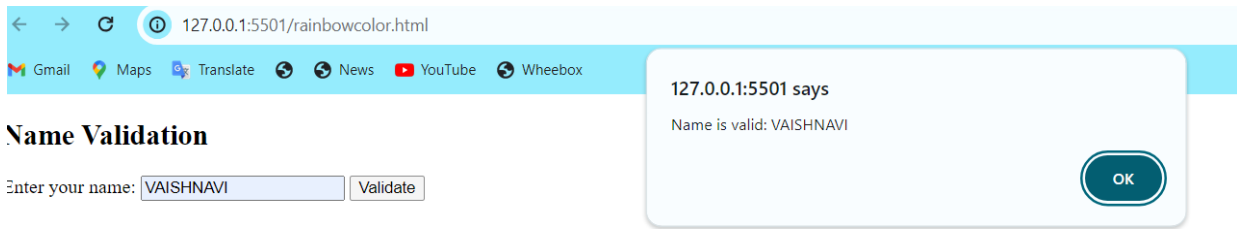
  <input type="text" id="name">

  <button onclick="validateName()">Validate</button>

</body>

</html>
```

# Output:



**Q2. Write a HTML-CSS script to display image at the background of web page.**  
**<!DOCTYPE html>**

**<html>**

**<head>**

**<title>Background Image Example</title>**

**<style>**    **body {**

**background-image: url('background-image.jpg');**

**background-size:**

**cover;            background-position:**

**center;        padding: 20px;        color:**

**white;**

**}**

**.content { background-color: rgba(0, 0, 0, 0.5); /\* Semi-transparent black**

**background \*/ padding: 20px; border-radius: 10px;**

**}**

**</style>**

**</head>**

**<body>**

**<div class="content">**

**<h1>Welcome to My Website</h1>**

**<p>This is some content on the page.</p>**

```
</div>
</body>
</html>
```

## Output:

### Slip No: 3

#### Q1. Write a PHP script to validate PAN Number

```
<?php function
validatePAN($pan)

    $spanRegex    =    '/^[A-Z]{5}[0-9]{4}[A-
Z]$/' ;    if (preg_match($spanRegex, $pan))
{    return true;

    } else {    return
false;

    }
}

$spanNumber = "ABCDE1234F"; if
(validatePAN($spanNumber)) {    echo "PAN
Number $spanNumber is valid.";

} else
    echo "PAN Number $spanNumber is invalid.";
}
?>
```

**Q2. Write HTML script for the following**

1		2	3
4	5	6	7
8		9	10
11	12	13	
	14	15	16

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Number Box</title>
```

```
<style> table{ border-collapse:
collapse; }
```

```
th, td {      border: 1px solid
black;          padding:
8px;      text-align: center;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<table>
```

```
<tr>
```

```
<td colspan="2">1</td>
```

```
<td>2</td>
```

```
<td>3</td>
</tr>
<tr>
<td>4</td>
<td rowspan="2">5</td>
<td>6</td>
<td>7</td>
</tr>
<html>
<body>
<table>
<tr>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td rowspan="2">11</td>
<td>12</td>
<td colspan="2">13</td>
</tr>
<tr>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
</table>
```

</body>

</html>

## Output:



1		2	3
4	5	6	7
8		9	10
11	12	13	
	14	15	16

### Slip No: 4

**Q1. Write a PHP script to validate Mobile Number.**

```
<?php function validateMobileNumber($mobileNumber)
```

```
{
```

```
    $mobileRegex = '/^[6-9]\d{9}$/';
```

```
if (preg_match($mobileRegex, $mobileNumber)) {
```

```
    return true;
```

```
    } else {
```

```
        return false;
```

```
    }
```

```
}
```

```
$mobileNumber = "1234567890";
```

```
if (validateMobileNumber($mobileNumber)) {    echo
```

```
"Mobile Number $mobileNumber is valid.";
```



```
} else {  
    echo "Mobile Number $mobileNumber is invalid."  
}  
?>
```

**Q2. Write a javascript code to accept Ename from user and display it on same web page. (Use <div>)**

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Employee Name Input</title>  
    <script>  
        function displayEmployeeName() {  
            var employeeName = document.getElementById("employeeName").value;  
            var displayDiv = document.getElementById("displayDiv");  
            displayDiv.innerHTML = "Employee Name: " + employeeName;  
        }  
    </script>  
</head>  
<body>  
  
    <h2>Employee Name Input</h2>  
  
    <label for="employeeName">Enter Employee Name:</label>  
    <input type="text" id="employeeName">  
  
    <button onclick="displayEmployeeName()">Submit</button>  
  
    <!-- Div to display the employee name -->  
    <div id="displayDiv"></div>  
  
</body>  
</html>
```

## Output:

## Employee Name Input

Enter Employee Name:    
Employee Name: vaishnavi jadhav

### Slip No: 5

**Q1. Write a PHP script to validate Email ID.**

```
<?php function validateEmail($email) {  
  
    if (filter_var($email, FILTER_VALIDATE_EMAIL)) {  
  
        return true;    }  
  
    else {  
  
        return false;  
  
    }  
}  
  
$email = "example@example.com";  
  
if (validateEmail($email)) {  
  
    echo "Email $email is valid.";  
  
} else {  
  
    echo "Email $email is invalid.";  
  
}  
  
?>
```

**Q2. Write a javascript code to calculate the sum of first and last digit of a number.**

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Sum of First and Last Digit</title>

  <script>

    function calculateSum() {

      var number = document.getElementById("number").value;

      var numberStr = number.toString();

      var firstDigit = parseInt(numberStr[0]);

      var lastDigit = parseInt(numberStr[numberStr.length - 1]);

      var sum = firstDigit + lastDigit;

      alert("Sum of first and last digit: " + sum);

    }

  </script>

</head>

<body>

  <h2>Sum of First and Last Digit</h2>

  <label for="number">Enter a number:</label>

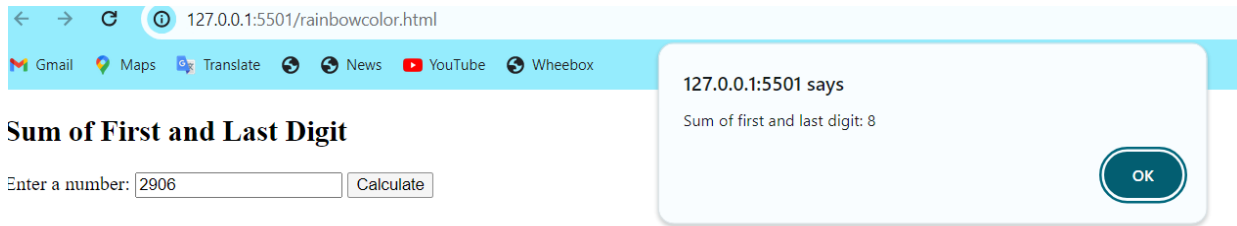
  <input type="number" id="number">

  <button onclick="calculateSum()">Calculate</button>

</body>

</html>
```

# Output:



## SLIP 6

**Q1. Create an HTML page giving information about celebrating Diwali in your country. Use Various tags in HTML to give it a pleasant look. It should be having following links: a. Clip of Diwali celebration b. Photos of Diwali celebration c. Information why it is celebrated**

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Diwali Celebration</title>
```

```
<style>
```

```
body {
```

```
font-family: Arial, sans-serif;
```

```
background-color: #f2f2f2;
```

```
margin: 0;
```

```
padding: 0;
```

```
}
```

```
header {
```

```
background-color: #ff9933;
```

```
padding: 20px;
```

```
text-align: center;
```

```
color: #fff;
```

```
}
```

```
nav {
```

```
text-align: center;
```

```
        margin-top: 20px;
    }
    nav a {
        text-decoration: none;
        color: #333;
        padding: 10px;
        margin: 0 10px;
        border: 1px solid #ccc;
        border-radius: 5px;
        background-color: #fff;
        transition: background-color 0.3s ease;
    }
    nav a:hover {
        background-color: #ff9933;
        color: #fff;
    }
    section {
        padding: 20px;
        margin: 20px;
        background-color: #fff;
        border-radius: 5px;
    }
    h2 {
        color: #ff9933;
    }
</style>
</head>
<body>
    <header>
        <h1>Diwali Celebration</h1>
    </header>
    <nav>
```

```

    <a href="#clip">Clip of Diwali celebration</a>
    <a href="#photos">Photos of Diwali celebration</a>
    <a href="#information">Information why it is celebrated</a>
</nav>
<section id="clip">
    <h2>Clip of Diwali Celebration</h2>
    <iframe width="560" height="315" src="clip.mp4" frameborder="0" allow="accelerometer;
autoplay; encrypted-media; gyroscope; picture-in-picture" allowfullscreen>
    </iframe>
</section>
<section id="photos">
    <h2>Photos of Diwali Celebration</h2>
    
</section>
<section id="information">
    <h2>Information why it is celebrated</h2>
    <p>Diwali, also known as the Festival of Lights, is celebrated to mark the victory of good over evil. It
signifies the return of Lord Rama to Ayodhya after 14 years of exile and his victory over the demon king
Ravana. It is also celebrated to honor the Goddess Lakshmi, the goddess of wealth and prosperity.</p>
</section>
</body>
</html>

```

**Q2. Write a PHP code to check whether given number is Armstrong or not.**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Armstrong Number Checker</title>
</head>
<body>
    <h2>Armstrong Number Checker</h2>
    <form method="post" action="">

```

```

Enter a number: <input type="text" name="number">
<input type="submit" name="submit" value="Check">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $number = $_POST['number'];
    $total = 0;
    $num = $number;
    $digits = strlen($number);

    while ($num != 0) {
        $rem = $num % 10;
        $total += $rem ** $digits;
        $num = (int)($num / 10);
    }

    if ($total == $number) {
        echo "<p>$number is an Armstrong number.</p>";
    } else {
        echo "<p>$number is not an Armstrong number.</p>";
    }
}
?>
</body>
</html>

```

## SLIP7

**Q1. Write the HTML code which generates the following output. List of Programs in College**

a. Arts	i. B.A.
ii. M.A.	b. Commerce
I. B. Com.	II. M. Com.
III. B.B.A.	c. Science
1. B. Sc.	2. M. Sc. (Physics)
3. M. Sc. (Chemistry)	d. Computer Science
o B.Sc. (Computer Science)	o B.C.A. (Science)
o B.Sc. (Information Technology)	o B.Sc. (Cyber and Digital Science)

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">

```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>List of Programs in College</title>
```

```
</head>
```

```
<body>
```

```
<h2>List of Programs in College</h2>
```

```
<ul>
```

```
<li>a. Arts
```

```
<ol>
```

```
<li>i. B.A.</li>
```

```
<li>ii. M.A.</li>
```

```
</ol>
```

```
</li>
```

```
<li>b. Commerce
```

```
<ol type="I">
```

```
<li>I. B. Com.</li>
```

```
<li>II. M. Com.</li>
```

```
<li>III. B.B.A.</li>
```

```
</ol>
```

```
</li>
```

```
<li>c. Science
```

```
<ol>
```

```
<li>1. B. Sc.</li>
```

```
<li>2. M. Sc. (Physics)</li>
```

```
<li>3. M. Sc. (Chemistry)</li>
```

```
</ol>
```

```
</li>
```

```
<li>d. Computer Science
```

```
<ul style="list-style-type: circle;">
```

```
<li>B.Sc. (Computer Science)</li>
```

```
<li>B.C.A. (Science)</li>
```

```
<li>B. Sc. (Information Technology)</li>
```

```
<li>B.Sc. (Cyber and Digital Science)</li>
```



```
        </ul>
    </li>
</ul>
</body>
</html>
```

**Q2. Write a javascript code to accept a String from user and display the vowels from it.**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Vowel Extractor</title>
</head>
<body>
    <h2>Vowel Extractor</h2>
    <label for="inputString">Enter a string:</label>
    <input type="text" id="inputString">
    <button onclick="extractVowels()">Extract Vowels</button>
    <p id="vowelResult"></p>

    <script>
        function extractVowels() {
            var inputString = document.getElementById('inputString').value;
            var vowels = '';
            var vowelArray = ['a', 'e', 'i', 'o', 'u', 'A', 'E', 'I', 'O', 'U'];

            for (var i = 0; i < inputString.length; i++) {
                if (vowelArray.includes(inputString[i])) {
                    vowels += inputString[i] + ' ';
                }
            }

            if (vowels === '') {
```

```

        document.getElementById('vowelResult').innerText = 'No vowels found in the string.';
    } else {
        document.getElementById('vowelResult').innerText = 'Vowels in the string: ' + vowels;
    }
}
</script>
</body>
</html>

```

## SLIP 8

### Q1.table

```

<!DOCTYPE html>
<html>
<head>
<style>
    table,th,td{
        border: 1px solid;
    }
</style>
</head>
<body>
    <h2>Expenditures of a Company (in Lakh Rupees) Per Annum </h2>
    <table>
        <thead>
            <tr>
                <th rowspan="2">Year</th>
                <th colspan="5"> Item of Expenditure</th>
            </tr>
            <tr>
                <th>Salary</th>
                <th>Fuel and Transport</th>
                <th>Bonus</th>

```

```
<th>Interest on Loans</th>
<th>Taxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998</td>
<td>288</td>
<td>98</td>
<td>3.00</td>
<td>23.4</td>
<td>83</td>
</tr>
<tr>
<td>1999</td>
<td>342</td>
<td>112</td>
<td>2.52</td>
<td>32.5</td>
<td>108</td>
</tr>
<tr>
<td>2000</td>
<td>324</td>
<td>101</td>
<td>3.84</td>
<td>41.6</td>
<td>74</td>
</tr>
<tr>
<td>2001</td>
<td>336</td>
```

```

        <td>133</td>
        <td>3.68</td>
        <td>36.4</td>
        <td>88</td>
    </tr>
    <tr>
        <td>2002</td>
        <td>420</td>
        <td>142</td>
        <td>3.96</td>
        <td>49.4</td>
        <td>98</td>
    </tr>
</tbody>
</table>
</body>
</html>

```

Q2. Write a PHP code to check whether given string 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>
    <form method="post" action="">
        Enter a string: <input type="text" name="string">
        <input type="submit" name="submit" value="Check">
    </form>
<?php

```

```

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $string = $_POST['string'];
    $reverse = strrev($string); // Reverse the string

    if (strtolower($string) == strtolower($reverse)) {
        echo "<p>'$string' is a palindrome.</p>";
    } else {
        echo "<p>'$string' is not a palindrome.</p>";
    }
}
?>
</body>
</html>

```

## SLIP 9

**Q1. Create HTML page with following specifications: i. Title should be about your State. ii. Color the background by Pink color. iii. Place your state name at the top of page in large text and in blue color. iv. Add names of popular places in your state, each in different color, style and font. v. Add scrolling text about your state specialty. (Use inline CSS to format the web page)**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>About My State</title>
    <style>
        body {
            background-color: pink;
        }
        h1 {
            color: blue;
            text-align: center;
            font-size: 36px;
            margin-top: 50px;

```

```

    }
    .popular-places {
        margin-top: 30px;
        text-align: center;
    }
    .place {
        font-size: 24px;
        margin-bottom: 10px;
    }
    #specialty {
        margin-top: 50px;
        text-align: center;
        font-size: 20px;
        font-style: italic;
        color: purple;
        animation: scrollText 10s linear infinite;
    }
    @keyframes scrollText {
        0% { transform: translateX(100%); }
        100% { transform: translateX(-100%); }
    }
</style>
</head>
<body>
    <h1>My State - Wonderful Land</h1>
    <div class="popular-places">
        <div class="place" style="color: green; font-family: 'Arial'; font-weight: bold;">Famous Beaches</div>
        <div class="place" style="color: red; font-family: 'Times New Roman'; font-style: italic;">Historical
Monuments</div>
        <div class="place" style="color: orange; font-family: 'Verdana'; font-weight: bold;">Scenic Hill
Stations</div>
        <div class="place" style="color: brown; font-family: 'Courier New';">Cultural Heritage Sites</div>
    </div>

```

```
<div id="specialty">
```

The state is known for its diverse culture, rich history, and stunning natural beauty. It offers a plethora of experiences ranging from serene beaches to majestic mountains.

```
</div>
```

```
</body>
```

```
</html>
```

**Q2. Write a Kotlin program to calculate the factorial of a given number. (Use Function)**

```
fun main() {  
    val number = 5 // Change this to any number for which you want to calculate the factorial  
    val factorialResult = calculateFactorial(number)  
    println("Factorial of $number is: $factorialResult")  
}
```

```
fun calculateFactorial(number: Int): Long {  
    var factorial: Long = 1  
    for (i in 1..number) {  
        factorial *= i  
    }  
    return factorial  
}
```

**SLIP10.**

**Q1. Write the HTML code which generates the following output (Use CSS) Emp form**

```
<html>  
<body>  
<Center>  
  
<Font size="+3" color=red>Employee Registration Form</font>  
<form method=post action="prac.html">  
<table>  
<tr>  
<td></td>  
<td><input type=radio name=initial checked>Mr.
```

```
<input type=radio name=initial>Mrs.
<input type=radio name=initial>Ms.</td>
</tr><tr>
<td>First Name</td>
<td><input type=text name=fn placeholder="First Name"></td>
</tr><tr>
<td>Last Name</td>
<td><input type=text name=ln placeholder="Last Name"></td>
</tr> <tr>
<td>Mail Address1</td>
<td><input type=text name=add1></td>
</tr><tr>
<td>Mail Address2</td>
<td><input type=text name=add2></td>
</tr><tr>
<td>City</td>
<td><input type=text name=ct></td>
</tr><tr>
<td>State</td>
<td><select name=state>
<option value="Gujarat">Gujarat
<option value="Maharastra">Maharastra
<option value="Karnataka">Karnataka
<option value="Delhi">Delhi
</select>
</td>
</tr><tr>
<td>Zip</td>
<td><input type=text name=zp></td>
</tr><tr>
<td>Upload Photo</td>
<td><input type=file name=photo></td>
```



```
</tr><tr>
<td>E-Mail</td>
<td><input type=text name=email size=30></td>
</tr><tr>
<td>Mobile</td>
<td><input type=text name=mob placeholder="+91"></td>
</tr><tr>
<td>Languages known</td>
<td><input type=checkbox name=lk value=Gujarati
checked>Gujarati</td>
</tr><tr>
<td></td>
<td><input type=checkbox name=lk value=Hindi
checked>Hindi</td>
</tr><tr>
<td></td>
<td><input type=checkbox name=lk value=English
checked>English</td>
</tr><tr>
<td></td>
<td><input type=checkbox name=lk value=Marathi >Marathi</td>
</tr><tr>
<td>Additional Information</td>
<td><textarea name=add rows=3 cols=20 placeholder="Optional"
wrap></textarea></td>
</tr><tr>
<td></td>
<td><input type=submit value=submit>&nbsp;<input type=reset
value=reset></td>
</table>
</form>
</body>
```

</html>

**Q2. Write a Kotlin application to check whether given number is prime or not (Use Function)**

```
fun main() {  
    val number = 17 // Change this to any number you want to check  
    if (isPrime(number)) {  
        println("$number is a prime number.")  
    } else {  
        println("$number is not a prime number.")  
    }  
}  
  
fun isPrime(number: Int): Boolean {  
    if (number <= 1) {  
        return false  
    }  
    for (i in 2 until number) {  
        if (number % i == 0) {  
            return false  
        }  
    }  
    return true  
}
```

**Slip No 11**

**Q1 Write HTML code to design a website for Online Shopping. Design home page which consist of list of items each with hyperlink, clicking on which should display related information on separate web page. (Use external CSS to format each web page).**

**index.html**

```
<!DOCTYPE html>  
  
<html >
```

```
<head>

  <title>Online Shopping</title>

  <link rel="stylesheet" href="styles.css">

</head>

<body>

  <header>

    <h1>Welcome to Our Online Store</h1>

  </header>

  <div>

    <ul>

      <li><a href="product1.html">Product 1</a></li>

      <li><a href="product2.html">Product 2</a></li>

    </ul>

  </div>

</body>

</html>
```

### **styles.css**

```
body {

  font-family: Arial, sans-serif;

  margin: 0;

  padding: 0;

}
```

```
header {

  background-color: #333;

  color: #fff;

  padding: 20px;

  text-align: center;
```

```
}
```

```
div ul {
```

```
    list-style-type: none;
```

```
    margin: 0;
```

```
    padding: 0;
```

```
}
```

```
div ul li {
```

```
    display: inline;
```

```
}
```

```
div ul li a {
```

```
    display: block;
```

```
    padding: 10px;
```

```
    text-decoration: none;
```

```
    color: #333;
```

```
}
```

```
div ul li a:hover {
```

```
    background-color: #f4f4f4;
```

```
}
```

## **product1.html**

```
<!DOCTYPE html>
```

```
<html >
```

```
<head>
```

```
</head>
```

```
<body>
```



<p>ABOUT LAKME

"AN ALLY TO THE CLASSIC INDIAN WOMAN, LAKMÉ INSPIRES HER TO EXPRESS THE UNIQUE BEAUTY AND SENSUALITY WITHIN...

ENABLING HER TO REALIZE THE POTENCY OF HER BEAUTY."

The contemporary Indian beauty expert - Lakmé continuously innovates to offer a wide range of high performance and world class cosmetics, skincare products, and beauty salons.

Combining international cosmetic technology with an in-depth understanding of the Indian woman's needs,

Lakmé also offers its consumers a comprehensive beauty experience through its products that are ideal for a variety of Indian skin tones..</p>

</body>

</html>

## **product2.html**

<!DOCTYPE html>

<head>

</head>

<body>



<p>After all, the brand's founder, Huda Kattan, a makeup artist and hugely popular TikTok influencer,

is known for always being on the cusp of the latest beauty trends.

The Huda Beauty line is stacked with fun and sophisticated cosmetics, skincare, fragrances, beauty tools and more at a variety of prices.</p><br>

<p>Huda Beauty offers more than 140 products online or in-store.

The cosmetics company has introduced a wide array of products, including lipsticks, highlighter and contour palettes,

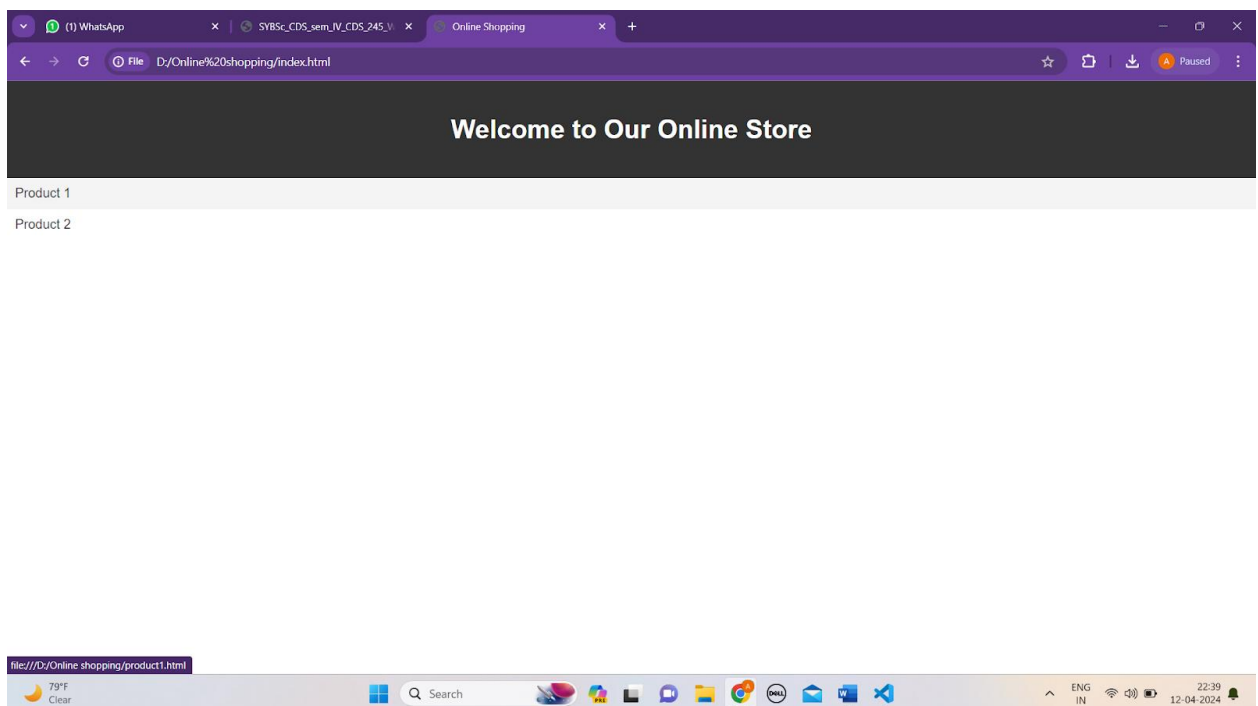
fake eyelashes, and a joint venture item with Tweezerman.

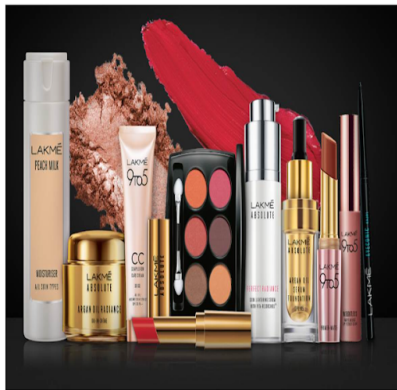
Since launch, Huda Beauty's Samantha Lashes #7, has been ranked as one of the best-selling and highly reviewed lash products.

In 2018, all launched products brought in at least \$200 million in annual revenue.

Some have described the success of internet-based beauty brands like Huda Beauty as part of a shift in the beauty market towards e-commerce.

## Output





ABOUT LAKMÉ "AN ALLY TO THE CLASSIC INDIAN WOMAN, LAKMÉ INSPIRES HER TO EXPRESS THE UNIQUE BEAUTY AND SENSUALITY WITHIN... ENABLING HER TO REALIZE THE POTENCY OF HER BEAUTY." The contemporary Indian beauty expert - Lakmé continuously innovates to offer a wide range of high performance and world class cosmetics, skincare products, and beauty salons. Combining international cosmetic technology with an in-depth understanding of the Indian woman's needs, Lakmé also offers its consumers a comprehensive beauty experience through its products that are ideal for a variety of Indian skin tones..



After all, the brand's founder, Huda Kattan, a makeup artist and hugely popular TikTok influencer, is known for always being on the cusp of the latest beauty trends. The Huda Beauty line is stacked with fun and sophisticated cosmetics, skincare, fragrances, beauty tools and more at a variety of prices.

Huda Beauty offers more than 140 products online or in-store. The cosmetics company has introduced a wide array of products, including lipsticks, highlighter and contour palettes, fake eyelashes, and a joint venture item with Tweezerman. Since launch, Huda Beauty's Samantha Lashes #7, has been ranked as one of the best-selling and highly reviewed lash products. In 2018, all launched products brought in at least \$200 million in annual revenue. Some have described the success of internet-based beauty brands like Huda Beauty as part of a shift in the beauty market towards e-commerce.

Copilot (preview)



**Q2 . Design following form in HTML and write a PHP script to display filled information on Web page**

WhatsApp

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Web and Mobile Application La

File

D:/Downloads/SYBSc\_CDS\_sem\_IV\_CDS\_245\_Web\_and\_Mobile\_Applications\_practical\_slips

SYBSc\_CDS\_sem\_IV\_CDS\_245\_Web\_and\_Mobile\_Applications\_practical\_slips (1).pdf

11 / 25

8

9

10

11

Lab C

Time: 3 Hours

Q1. Write HTML c  
consist of list o  
information on

Q2. Design follow  
Web page.

Q3. Viva / Journal

79°F  
Clear

Search



## Form.php

```
<!DOCTYPE html>

<html >

<head>

    <title>User Information Form</title>

</head>

<body>

    <form action="display_info.php" method="post">

        <label for="name">Enter your name:</label><br>

        <input type="text" id="name" name="name"><br><br>

        <label for="city">Select your City:</label><br>

        <select id="city" name="city">

            <option value="Pune">Pune</option>

            <option value="Mumbai">Mumbai</option>

            <option value="Delhi">Delhi</option>

            <!-- Add more options if needed -->

        </select><br><br>

        <label>Which Operating System do you use:</label><br>

        <input type="radio" id="windows" name="os" value="Windows">

        <label for="windows">Windows</label><br>

        <input type="radio" id="linux" name="os" value="Linux">

        <label for="linux">Linux</label><br><br>

        <label for="gender">Gender:</label><br>

        <input type="radio" id="male" name="gender" value="Male">
```

```
<label for="male">Male</label><br>
<input type="radio" id="female" name="gender" value="Female">
<label for="female">Female</label><br><br>

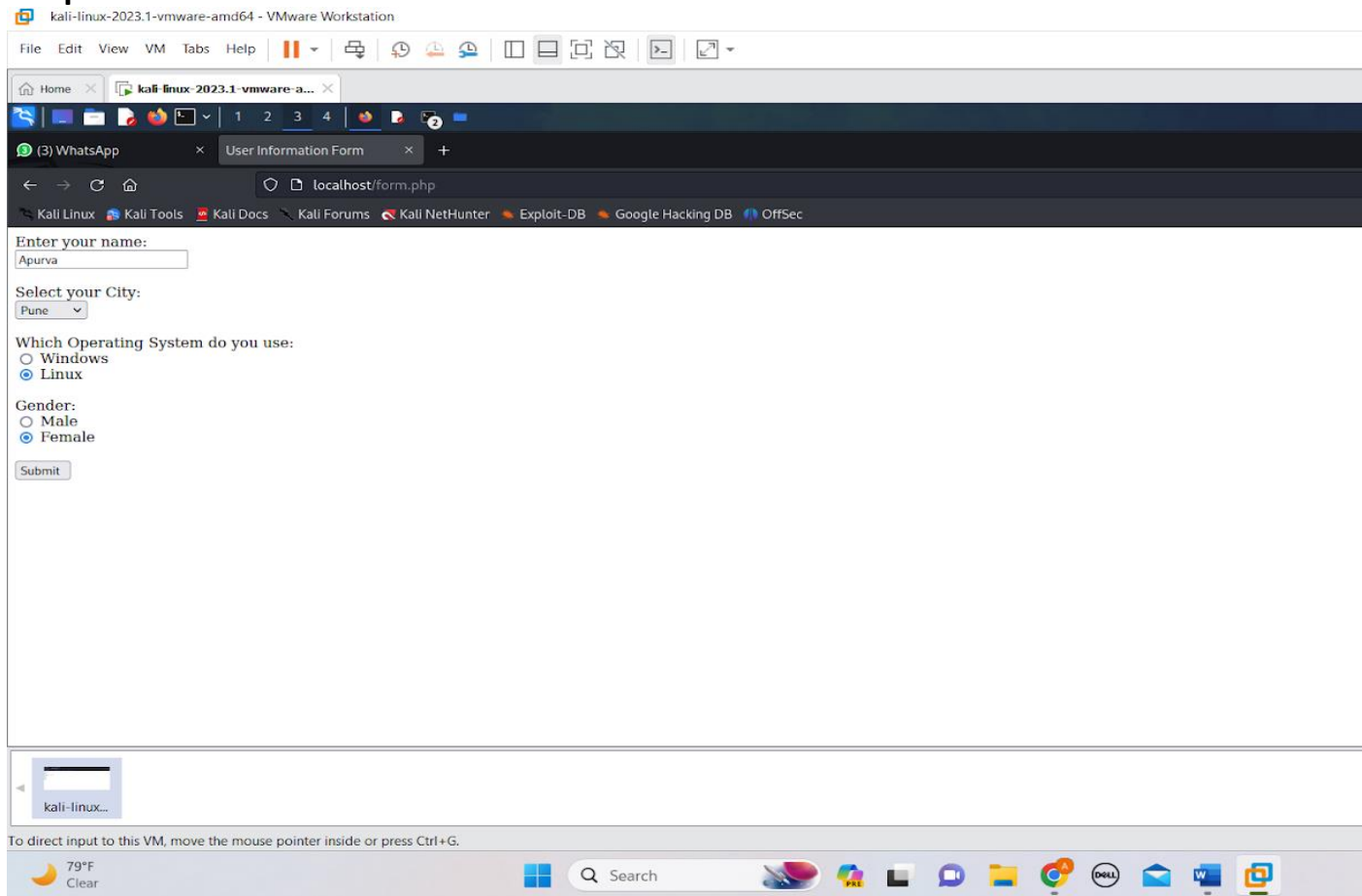
<input type="submit" value="Submit">

</form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST["name"];
    $os = $_POST["os"];
    $gender = $_POST["gender"];
    echo "<h2>Information Submitted:</h2>";
    echo "<p>Name: $name</p>";
    echo "<p>Operating System: $os</p>";
    echo "<p>Gender: $gender</p>";
}
?>

</body>
</html>
```

## Output



## Slip No 12

**Q1. Design HTML form to accept two strings and following three options (use radio button). Write a PHP script to perform following operations on String. a. Compare 2 strings b. Convert string into Uppercase c. Convert string into Lowercase.**

### String.php

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
<title>String Operations in PHP</title>
</head>
<body>
<form method="post">
    Enter String 1:
    <input type="text" name="string1" id="string1"><br><br>

    Enter String 2:
    <input type="text" name="string2" id="string2"><br><br>

    <input type="radio" id="compare" name="operation" value="compare">
    <label for="compare">Compare 2 strings</label><br>

    <input type="radio" id="uppercase" name="operation" value="uppercase">
    <label for="uppercase">Convert string into Uppercase</label><br>

    <input type="radio" id="lowercase" name="operation" value="lowercase">
    <label for="lowercase">Convert string into Lowercase</label><br><br>

    <input type="submit" name="submit" value="Submit">
</form>

<?php
if ($_POST)
{
```

```
$string1 = $_POST["string1"];
$string2 = $_POST["string2"];
$operation = $_POST["operation"];

switch ($operation) {
    case "compare":
        if ($string1 === $string2) {
            echo "The two strings are equal.";
        } else {
            echo "The two strings are not equal.";
        }
        break;

    case "uppercase":
        echo "Uppercase of String 1: " . strtoupper($string1) . "<br>";
        echo "Uppercase of String 2: " . strtoupper($string2);
        break;

    case "lowercase":
        echo "Lowercase of String 1: " . strtolower($string1) . "<br>";
        echo "Lowercase of String 2: " . strtolower($string2);
        break;

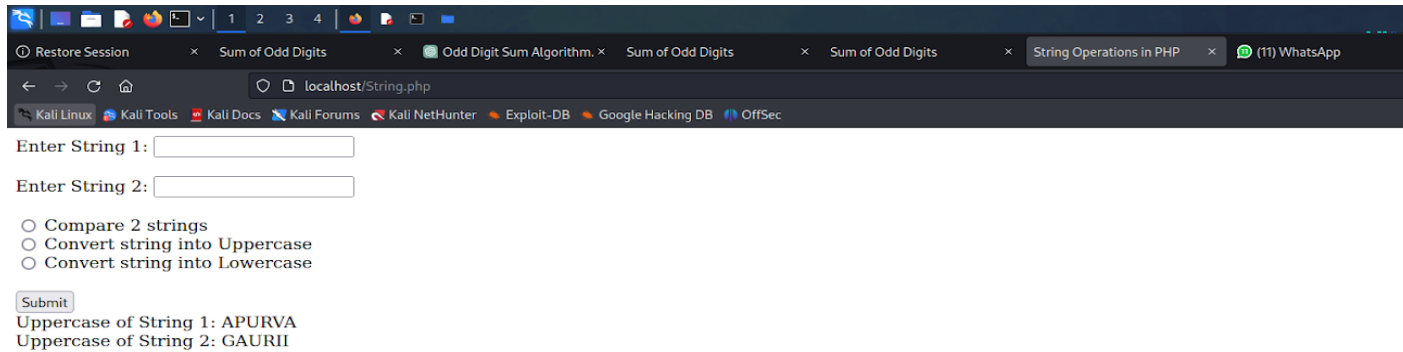
    default:
        echo "Invalid operation selected.";
}
```

```
}  
?>
```

```
</body>
```

```
</html>
```

## Output



**Q2. Write a JavaScript code to calculate the sum of odd digits from a given number using function.**

### sum.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Sum of Odd Digits</title>
```

```
</head>
```

```
<body>
```

```
<form>

  Enter a number:

  <input type="number" id="numberInput" name="numberInput">

  <button type="button" onclick="sumOfOddDigits()">Calculate</button>

</form>
```

```
<script>

function sumOfOddDigits() {

  var number = document.getElementById("numberInput").value;

  var sum = 0;

  while (number > 0) {

    var digit = number % 10;

    if (digit % 2 !== 0) {

      sum += digit;

    }

    number = Math.floor(number / 10);

  }

  document.write("Sum of odd digits: " + sum);

}

</script>
```

```
</body>
```

```
</html>
```

### Output

Enter a number:

---

Sum of odd digits: 6

### Slip No 13

**Q1. Write a PHP script to display multiplication table of a given number.**

**table.php**

```
<!DOCTYPE html>

<html >

<head>

    <title>Multiplication Table</title>

</head>

<body>

    <form action="" method="post">

        <label for="number">Enter a number:</label>

        <input type="text" id="number" name="number">

        <input type="submit" value="Generate Table">

    </form>

    <?php

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

        $number = $_POST["number"];

        if (!empty($number) && is_numeric($number)) {

            echo "<h2>Multiplication Table of $number:</h2>";

            echo "<table border='1'>";

            for ($i = 1; $i <= 10; $i++) {

                echo "<tr>";
```



```

        echo "<td>$number x $i</td>";

        echo "<td>" . ($number * $i) . "</td>";

        echo "</tr>";

    }

    echo "</table>";

} else {

    echo "<p>Please enter a valid number.</p>";

}

}

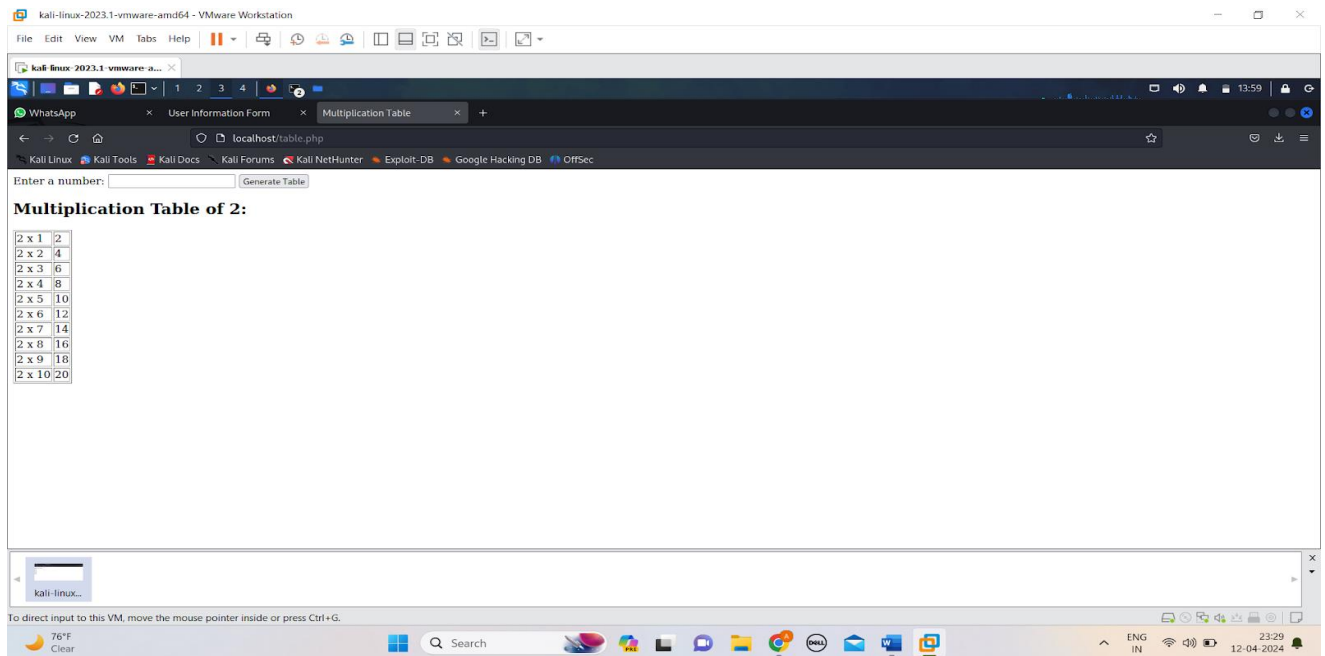
?>

</body>

</html>

```

## Output



**Q2 . Write android application using Kotlin to display “My College, My Carrier” Message on Mobile.**

**Mainactivity.kt**

```

package com.example.mycollege

import android.os.Bundle
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
    }
}

```

### **activity\_main.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center">

    <TextView
        android:id="@+id/messageTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="My College, My Carrier"
        android:textSize="24sp"
        tools:ignore="HardcodedText" />

```

</RelativeLayout>

### Slip no 14

**Q1. Write a JavaScript code to validate Pin Code. (Handle OnBlur event)**

**pin.html**

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Pin Code Validation</title>
```

```
    <script type="text/javascript">
```

```
        function validatePin() {
```

```
            var pin = document.getElementById("pin").value;
```

```
            var pinRegex = /^[0-9]{6}$/;
```

```
            if (pinRegex.test(pin)) {
```

```
                document.getElementById("pinError").innerHTML = "";
```

```
            } else {
```

```
                document.getElementById("pinError").innerHTML = "Please enter a valid 4-digit PIN.";
```

```
            }
```

```
        }
```

```
    </script>
```

```
</head>
```

```
<body>
```

```
    <h2>Pin Code Validation</h2>
```

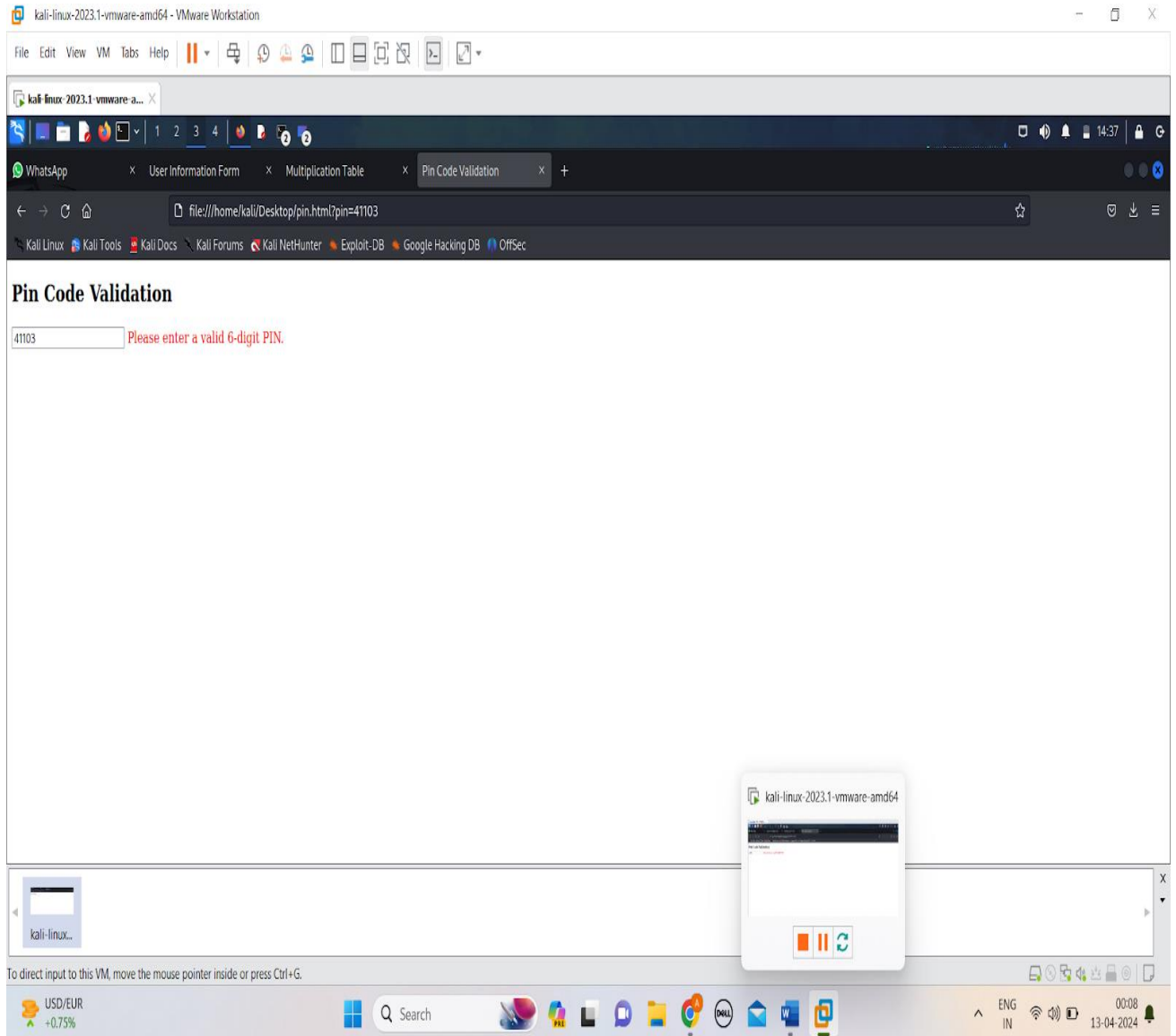
```
    <input type="text" id="pin" placeholder="Enter 6-digit PIN"
onblur="validatePin()">
```

```
    <span id="pinError" style="color: red;"></span>
```

</body>

</html>

## Output



**Q2. Write android application using Kotlin to display Text Message clicking on button.**

### Mainactivity.kt

```
import android.os.Bundle
```

```
import androidx.appcompat.app.AppCompatActivity
```

```
import kotlinx.android.synthetic.main.activity_main.*
```

```

class MainActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        // Set OnClickListener for the button
        button.setOnClickListener {
            // Display the text message
            textView.text = "Button clicked!"
        }
    }
}

```

### **activity\_main.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Click Me"
        android:layout_centerInParent="true"/>

```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="TextView"
    android:layout_below="@id/button"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"/>
```

```
</RelativeLayout>
```

## **Output**

### **Slip No 15**

**Q1. Write a PHP script for the following: Design a form to accept two strings from the user.**

- a. Find whether the small string appears at the start of the large string.**
- b. Find the position of the small string in the big string**

### **str.php**

```
<!DOCTYPE html>
<html>
<head>
    <title>String Operations</title>
</head>
<body>
    <h2>String Operations</h2>
    <form method="post" action="">
```

```
<label for="bigString">Enter a large string:</label><br>
<input type="text" id="bigString" name="bigString" required><br>
<label for="smallString">Enter a small string:</label><br>
<input type="text" id="smallString" name="smallString" required><br><br>
<input type="submit" value="Submit">
</form>
```

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $bigString = $_POST["bigString"];
    $smallString = $_POST["smallString"];

    // Check if the small string appears at the start of the big string
    $startsWith = strpos($bigString, $smallString) === 0;

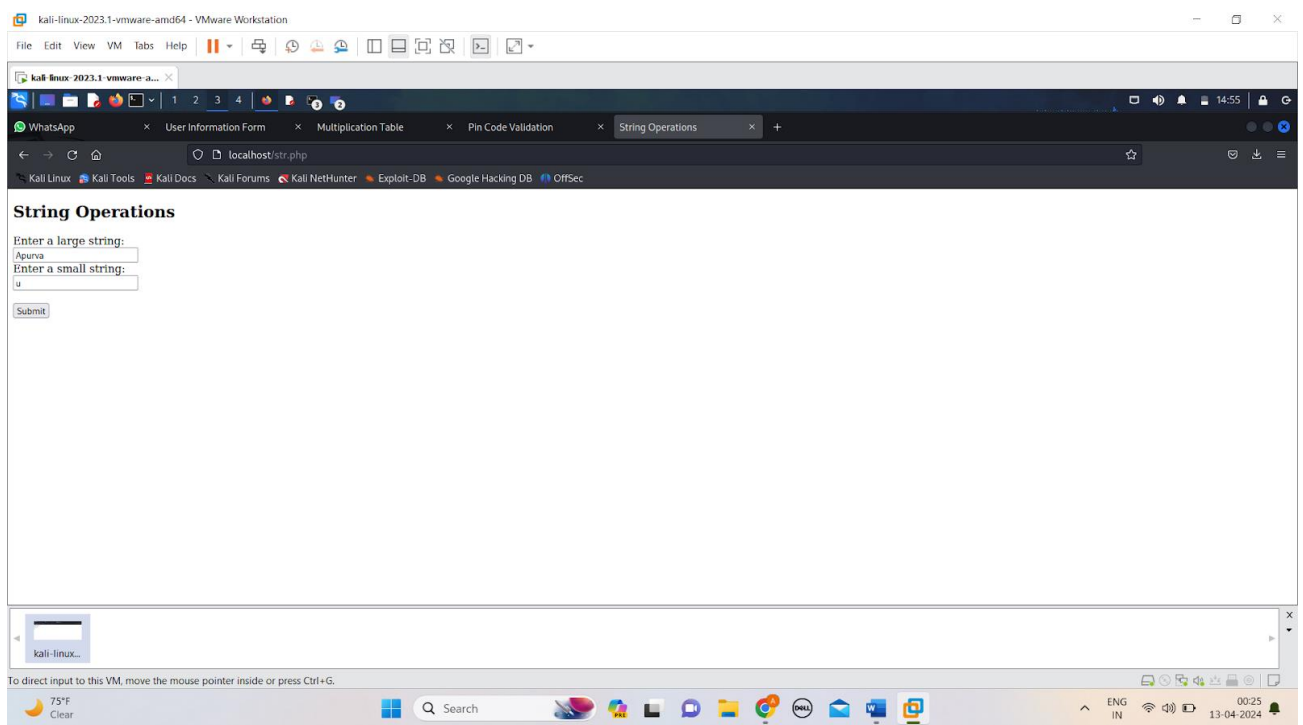
    // Find the position of the small string in the big string
    $position = strpos($bigString, $smallString);

    if ($startsWith) {
        echo "<p>The small string '$smallString' appears at the start of the big string '$bigString'.</p>";
    } else {
        echo "<p>The small string '$smallString' does not appear at the start of the big string '$bigString'.</p>";
    }

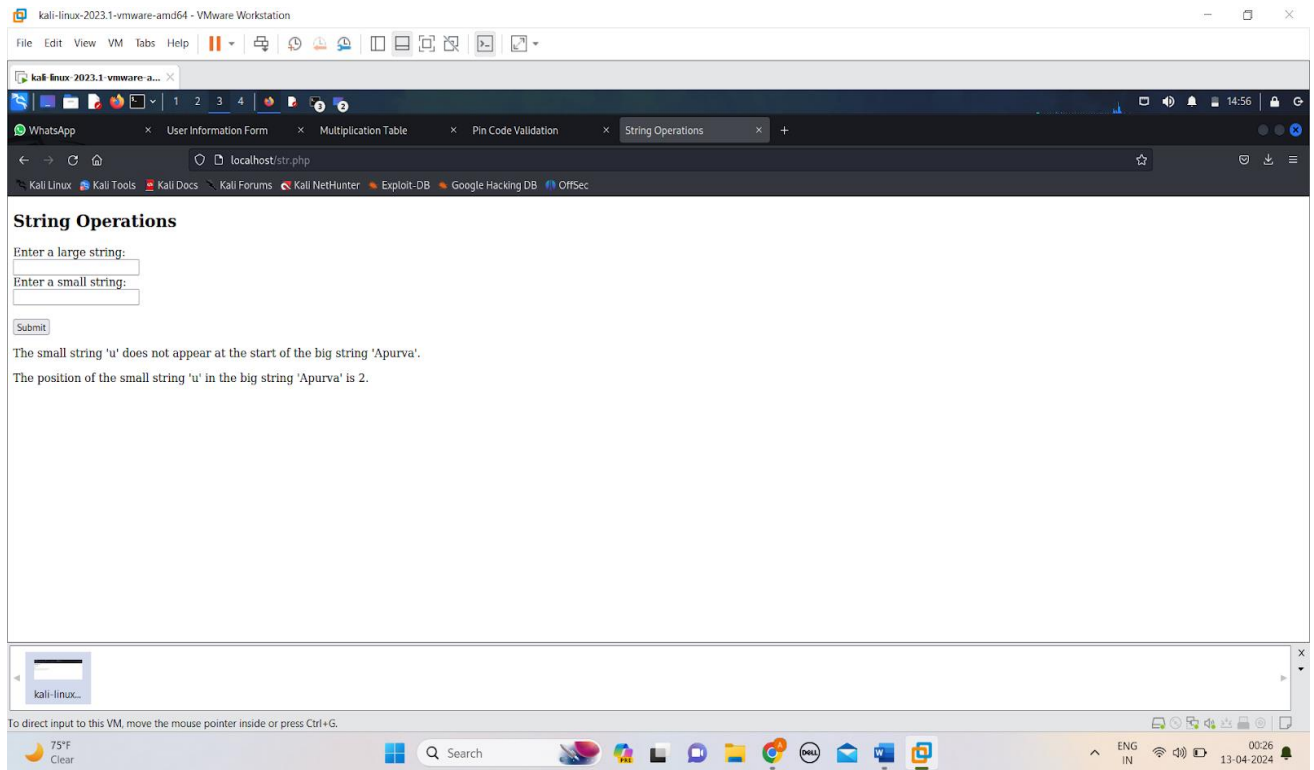
    if ($position !== false) {
        echo "<p>The position of the small string '$smallString' in the big string '$bigString' is $position.</p>";
    }
}
```

```
} else {  
    echo "<p>The small string '$smallString' is not found in the big string  
'$bigString'.</p>";  
}  
  
}  
  
?>  
</body>  
</html>
```

## Output







**Q2. Write a HTML – CSS script to accept the details of Student (RollNo, SName, Per) and display it in tabular format in red color.**

**student.html**

```
<!DOCTYPE html>
```

```
<html >
```

```
<head>
```

```
<title>Student Details</title>
```

```
<style>
```

```
    table {
```

```
        border-collapse: collapse;
```

```
        width: 100%;
```

```
    }
```

```
    th, td {
```

```
        border: 1px solid red;
```

```
        padding: 8px;
```

```
        text-align: left;
    }
    th {
        background-color: red;
        color: white;
    }
</style>
</head>
<body>

<h2>Student Details</h2>

<form>
    <label for="rollNo">Roll No:</label><br>
    <input type="text" id="rollNo" name="rollNo"><br>
    <label for="sName">Name:</label><br>
    <input type="text" id="sName" name="sName"><br>
    <label for="per">Percentage:</label><br>
    <input type="text" id="per" name="per"><br><br>
    <input type="button" value="Submit" onclick="addStudent()">
</form>

<table id="studentTable">
    <tr>
        <th>Roll No</th>
        <th>Name</th>
        <th>Percentage</th>
```

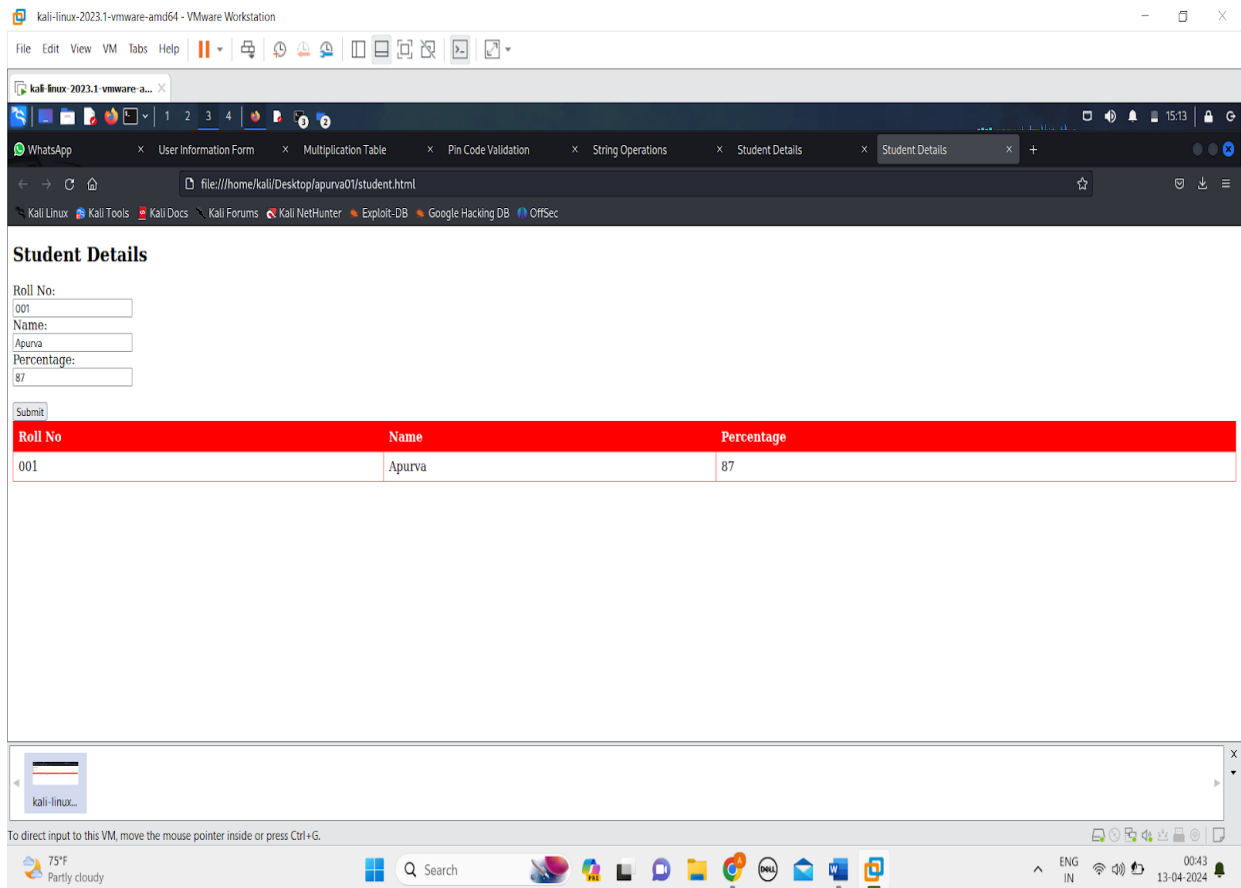
```
</tr>
</table>

<script>
    function addStudent() {
        var rollNo = document.getElementById("rollNo").value;
        var sName = document.getElementById("sName").value;
        var per = document.getElementById("per").value;

        var table = document.getElementById("studentTable");
        var row = table.insertRow(-1);
        var cell1 = row.insertCell(0);
        var cell2 = row.insertCell(1);
        var cell3 = row.insertCell(2);
        cell1.innerHTML = rollNo;
        cell2.innerHTML = sName;
        cell3.innerHTML = per;
    }
</script>

</body>
</html>
```

### **Output**



## SLIP 21

**Q1. Write a javascript code to calculate the sum of even digits of a given number.**

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Sum of Even Digits</title>
```

```
</head>
```

```
<body>
```

```
  <h2>Sum of Even Digits Calculator</h2>
```

```
  <label for="numberInput">Enter a number:</label>
```

```
  <input type="text" id="numberInput">
```

```
  <button onclick="calculateSum()">Calculate</button>
```

```
  <p id="result"></p>
```

```

<script>
function calculateSum() {
    const number = document.getElementById("numberInput").value;
    let sum = 0;

    for (let digit of number) {
        if (parseInt(digit) % 2 === 0) {
            sum += parseInt(digit);
        }
    }

    document.getElementById("result").innerText = "Sum of even digits: " + sum;
}
</script>
</body>
</html>

```

## OUTPUT

### Sum of Even Digits Calculator

Enter a number:

Sum of even digits: 6

## Q2. Write a PHP script to validate Email ID.

```

<!DOCTYPE html>
<html>
<body>
    <form name="form"method="post"action="em.php">
        Enter email id:

```

```

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

<?php

function valid_email($email) {
    $pattern="/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/";
    return preg_match($pattern, $email);
}

if (isset($_POST['email'])) {
    $email = $_POST['email'];
    if (valid_email($email)) {
        echo "Valid email address.";
    } else {
        echo "Invalid email address.";
    }
} else {
    echo "Email address is not provided.";
}

?>

```

## SLIP 22

**Q1. Create an HTML page giving information about celebrating Diwali in your country. Use**

**Various tags in HTML to give it a pleasant look. It should be having following links:**

**a. Clip of Diwali celebration**

## **b. Photos of Diwali celebration**

## **c. Information why it is celebrated**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Diwali Celebration</title>
  <style>
    body {
      font-family: cambria;
      background-color:white;
      margin: 0;
      padding: 0;
    }
    header {
      background-color:orange;
      color:white;
      padding: 10px;
      text-align: center;
    }
    nav {
      background-color: #e67e22;
      padding: 10px;
      text-align: center;
    }
    nav a {
      color: white;
      text-decoration: none;
      margin: 0 10px;
    }
    nav a:hover {
      text-decoration: underline;
```

```

    }
    section {
        padding: 20px;
    }
    h2 {
        color:maroon;
        text-align: center;

    }

</style>
</head>
<body>
    <header>
        <h1>Diwali Celebration in Our Country</h1>
    </header>

    <nav>
        <a href="#celebration-clip">Clip of Diwali celebration</a>
        <a href="#celebration-photos">Photos of Diwali celebration</a>
        <a href="#celebration-info">Information why it is celebrated</a>
    </nav>

    <section id="celebration-info">
        <h2>Information why Diwali is celebrated</h2>
        <p>Diwali, also known as the Festival of Lights, is a significant Hindu festival celebrated all over the world. It symbolizes the victory of light over darkness and good over evil. The festival usually lasts for five days and is marked by lighting diyas (oil lamps), bursting firecrackers, exchanging gifts, and feasting with family and friends. Diwali is celebrated to honor the return of Lord Rama, his wife Sita, and his loyal brother Lakshmana to their kingdom after 14 years of exile and defeating the demon king Ravana. It also marks the beginning of the Hindu New Year and is a time for spiritual reflection, renewal, and prosperity.</p>
    </section>

```



```

<section id="celebration-clip">
    <h2>Clip of Diwali Celebration</h2>
    <p>Watch this video clip to experience the vibrant celebrations of Diwali in our country:</p>
    <iframe width="560" height="315" src="https://youtu.be/nV2P7xt2rCM?si=JF9xm-9vNjWpHjtX" frameborder="0" allowfullscreen></iframe>
</section>

<section id="celebration-photos">
    <h2>Photos of Diwali Celebration</h2>
    <p>Here are some beautiful photos capturing the essence of Diwali celebrations:</p>

</section>

</body>
</html>

```

**Q2. Write a PHP script to change initial character of each word from a given string to uppercase.**

```

<!DOCTYPE html>

<html>

```

```
<head>
  <title>String to Uppercase Converter</title>
</head>
<body>
  <form method="post" action="">
    <label for="input_string">Enter a string:</label><br>
    <input type="text" id="input_string" name="input_string"><br>
    <button type="submit">Convert to Uppercase</button>
  </form>

  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $input_string = $_POST['input_string'];
    $uppercase_string = strtoupper($input_string);
    echo "Uppercase string: " . $uppercase_string;
  }
  ?>
</body>
</html>
```

## **SLIP 23**

**Q1. Design following form in HTML and write a PHP script to display filled information on**

**Web page.**

Enter your name	<input type="text"/>
Select your City	Pune ▼
<b>Which Operating System do you have used</b>	
<input type="checkbox"/> Windows <input type="checkbox"/> Linux <input type="checkbox"/> Mac	
<b>Gender</b>	<input type="radio"/> Male <input type="radio"/> Female
<input type="button" value="Submit"/>	

**Q2. Write a PHP code to check whether given number is Armstrong or not.**

```
<html>
```

```
<body>
```

```
    <form method="post">
```

```
        Enter the Number:
```

```
        <input type="number" name="number">
```

```
        <input type="submit" value="Submit">
```

```
    </form>
```

```
</body>
```

```
</html>
```

```
<?php
```

```
if($_POST)
```

```
{    $number = $_POST['number'];
```

```
    $a = $number;
```

```
    $sum = 0;
```

```
    while( $a != 0 )
```

```
    {
```

```

$rem = $a % 10;

$sum = $sum + ( $rem * $rem * $rem );

$a = $a / 10;

}

if( $number == $sum )

{

echo "Yes $number an Armstrong Number";

}else

{

echo "$number is not an Armstrong Number";

}

}

?>

```

## SLIP 24

**Q1. Write a javascript code to calculate the sum of first and last digit of a number (Handle**

**onBlur event)**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">

```

```

<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Sum of First and Last Digit</title>
<script>
    function calculateSum() {
        var numberInput = document.getElementById("number").value;
        var numberString = numberInput.toString();

        if(numberString.length > 0) {
            // Get the first digit
            var firstDigit = parseInt(numberString.charAt(0));

            // Get the last digit
            var lastDigit = parseInt(numberString.charAt(numberString.length - 1));

            // Calculate the sum
            var sum = firstDigit + lastDigit;

            // Display the sum
            alert("Sum of first and last digit: " + sum);
        }
    }
</script>
</head>
<body>
    <h2>Calculate Sum of First and Last Digit</h2>
    <input type="number" id="number" onblur="calculateSum()">
</body>
</html>

```

**Q2. Write a PHP script to accept the details of Voter (ID, Name, Constituency) and display it on same page in tabular format.**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Voter Details</title>
</head>
<body>
  <h2>Voter Details</h2>
  <form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    <label for="voter_id">Voter ID:</label><br>
    <input type="text" id="voter_id" name="voter_id" required><br><br>
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name" required><br><br>
    <label for="constituency">Constituency:</label><br>
    <input type="text" id="constituency" name="constituency" required><br><br>
    <input type="submit" value="Submit">
  </form>
  <?php
  if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $voter_id = htmlspecialchars($_POST["voter_id"]);
    $name = htmlspecialchars($_POST["name"]);
    $constituency = htmlspecialchars($_POST["constituency"]);
    echo "<h3>Submitted Details:</h3>";
    echo "<table border='1'>";
    echo "<tr><th>Voter ID</th><th>Name</th><th>Constituency</th></tr>";
    echo "<tr><td>$voter_id</td><td>$name</td><td>$constituency</td></tr>";
    echo "</table>";
  }
  ?>
</body>
</html>
```

## SLIP 25

**Q1. Write a JavaScript code to validate Pin Code. (Handle OnBlur event)**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PIN Code Validation</title>
  <script>
    function validatePin() {
      var pinInput = document.getElementById("pin").value;
      var pinRegex = /^\d{6}$/; // Regex pattern for a 6-digit PIN

      if(pinRegex.test(pinInput)) {
        alert("PIN code is valid.");
      } else {
        alert("Invalid PIN code. Please enter a 6-digit number.");
      }
    }
  </script>
</head>
<body>
  <h2>PIN Code Validation</h2>
  <input type="text" id="pin" placeholder="Enter PIN code" onblur="validatePin()">
</body>
</html>
```

**Q2. Write a javascript code to validate given name, if it is invalid then display the message**

**“Name is Invalid” otherwise display it by using alert() dialog box.**

**[15 Marks ]**

```
<!DOCTYPE html>

<html>

<head>

  <title>Sum of First and Last Digit</title>

  <script>

    function calculateSum() {

      var number = document.getElementById("number").value;

      var numberStr = number.toString();

      var firstDigit = parseInt(numberStr[0]);

      var lastDigit = parseInt(numberStr[numberStr.length - 1]);

      var sum = firstDigit + lastDigit;

      alert("Sum of first and last digit: " + sum);

    }

  </script>

</head>

<body>

  <h2>Sum of First and Last Digit</h2>

  <label for="number">Enter a number:</label>

  <input type="number" id="number">

  <button onclick="calculateSum()">Calculate</button>

</body>

</html>
```