Lab Manual

For

Web technology (1ET1050501)

B.Tech Third (Semester-V)

Academic Year
2023-24(ODD)

Department of

Information Technology

Sankalchand Patel College of Engineering

Certificate

This is to certify that the Lab/term work carried out in the subject of Web Technology and recorded in this journal is the bonafide work of Mr.Patel Nil Rajendrakumar PRN No:-2021095900023824 of B.Tech. Semester :V in the branch of Information Technology during the academic year 2023- 2024.

Faculty in Charge Date: *Head of the Department Date:*

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13	Write a program to manipulate data from table and display all this information using table format.		
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15	Design HTML form with java script to perform following task: • To show “You Clicked Me” message when a user clicks on button “Click Me”. • Takes Integer number as input and tells whether the number is ODD or EVEN. • Takes two real numbers as input and perform arithmetic’s operation chosen by user from list of radio button.		
16	Design HTML form with java script for registration purpose with following constraints: • Name accepts only alphabet character • Mobile Number with exactly 10 characters • Email Id in valid format • Display hint on mouse over the textbox		

1.Write HTML code for table tag with attribute.

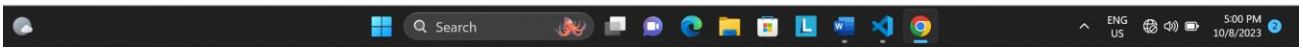
Ans:pr1.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Sample Table</title>
</head>
<body>

<table border="1" cellpadding="5" cellspacing="0" width="80%">
    <caption>Employee Information</caption>
    <tr>
        <th>Employee ID</th>
        <th>Name</th>
        <th>Department</th>
        <th>Salary</th>
    </tr>
    <tr>
        <td>001</td>
        <td>Nil patel</td>
        <td>HR</td>
        <td>50,000</td>
    </tr>
    <tr>
        <td>002</td>
        <td>Joshi yash</td>
        <td>Marketing</td>
        <td>55,000</td>
    </tr>
    <tr>
        <td>003</td>
        <td>jaimin patel</td>
        <td>IT</td>
        <td>60,000</td>
    </tr>
</table>

</body>
</html>
```

Output

Employee Information

Employee ID	Name	Department	Salary
001	Nil patel	HR	50,000
002	Joshi yash	Marketing	55,000
003	jaimin patel	IT	60,000



2.Write HTML code for displaying image and demonstrate Hyper-link.

Ans .Pr2.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Image and Hyperlink Example</title>
</head>
<body>

    <img src="download.jpeg" alt="A beautiful image">


    <a href="https://www.bmw.in/en/index.html">click here</a>
</body>
</html>
```

Output:

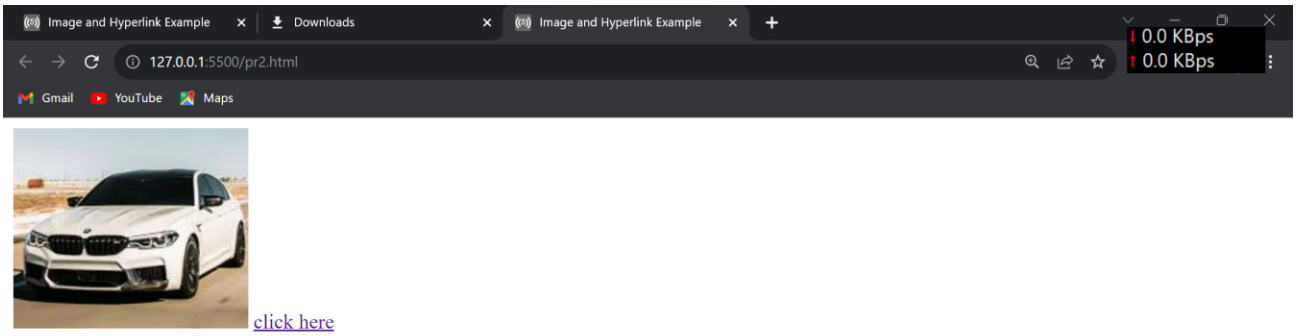
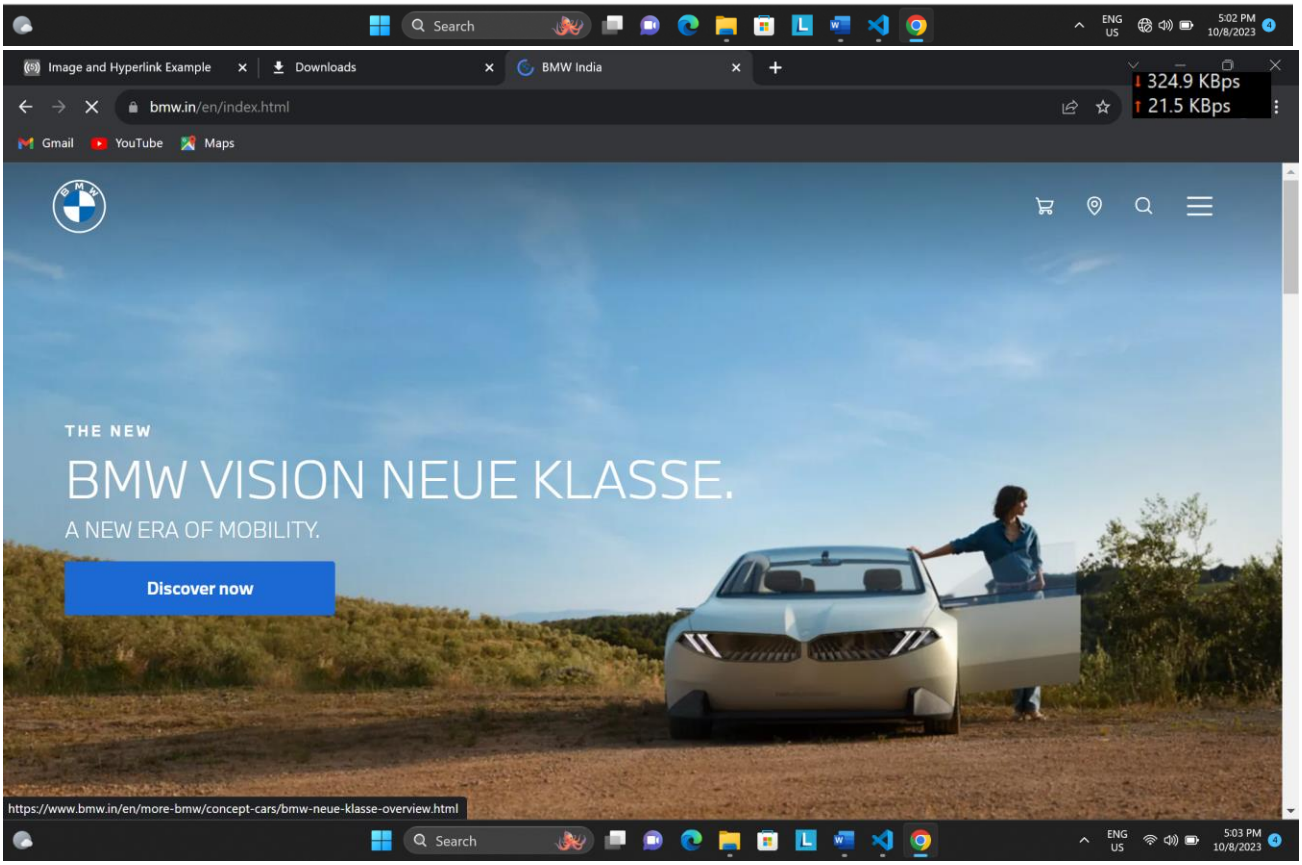


Image and Hyperlink Example
Downloads
Image and Hyperlink Example
0.0 KBps
0.0 KBps
127.0.0.1:5500/pr2.html
Gmail
YouTube
Maps

click here

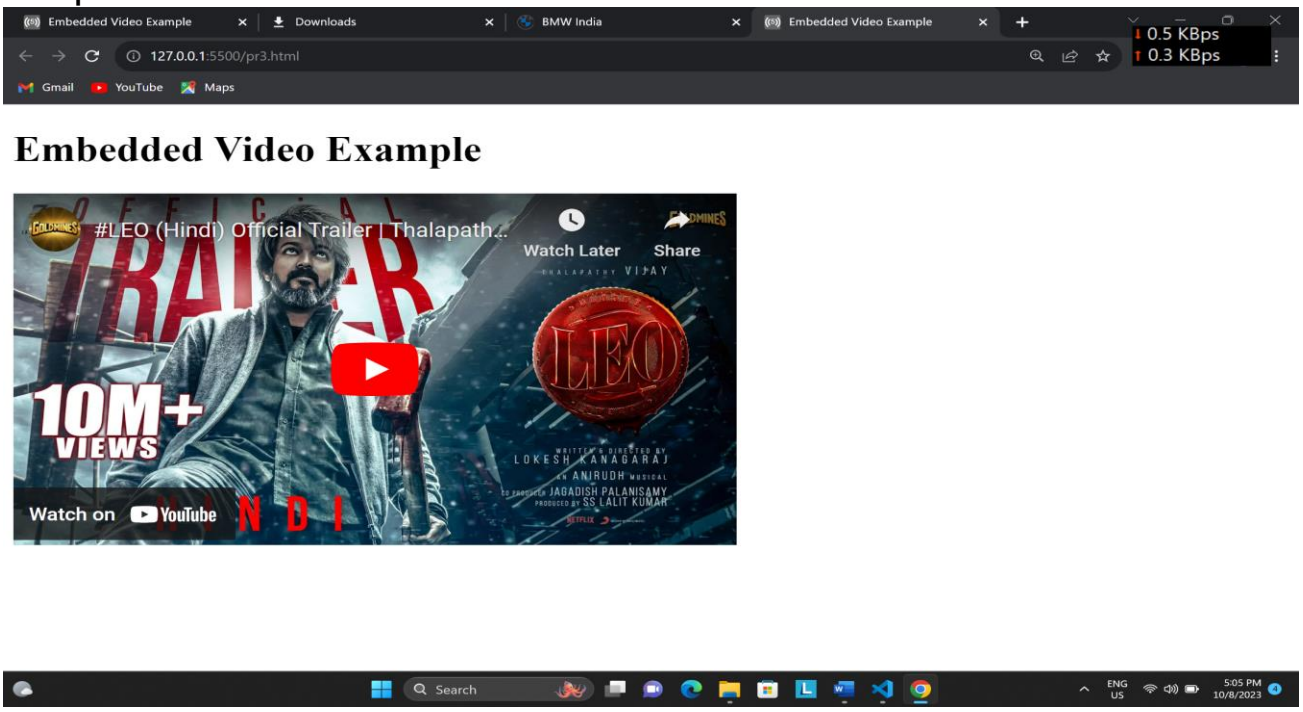

Search
ENG
US
5:02 PM
10/8/2023
Image and Hyperlink Example
Downloads
BMW India
324.9 KBps
21.5 KBps
bmw.in/en/index.html
Gmail
YouTube
Maps
THE NEW
BMW VISION NEUE KLASSE.
A NEW ERA OF MOBILITY.
Discover now
https://www.bmw.in/en/more-bmw/concept-cars/bmw-neue-klasse-overview.html
Search
ENG
US
5:03 PM
10/8/2023

3.Write HTML code to attach a video on webpage using embed tag in html.

Ans.:Pr3.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Embedded Video Example</title>
</head>
<body>
    <h1>Embedded Video Example</h1>

        <iframe width="560" height="315" src="https://www.youtube.com/embed/3P-t4WRoW5c?si=FgCEdOMjMyin0WBw" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

</body>
</html>
```

Output:

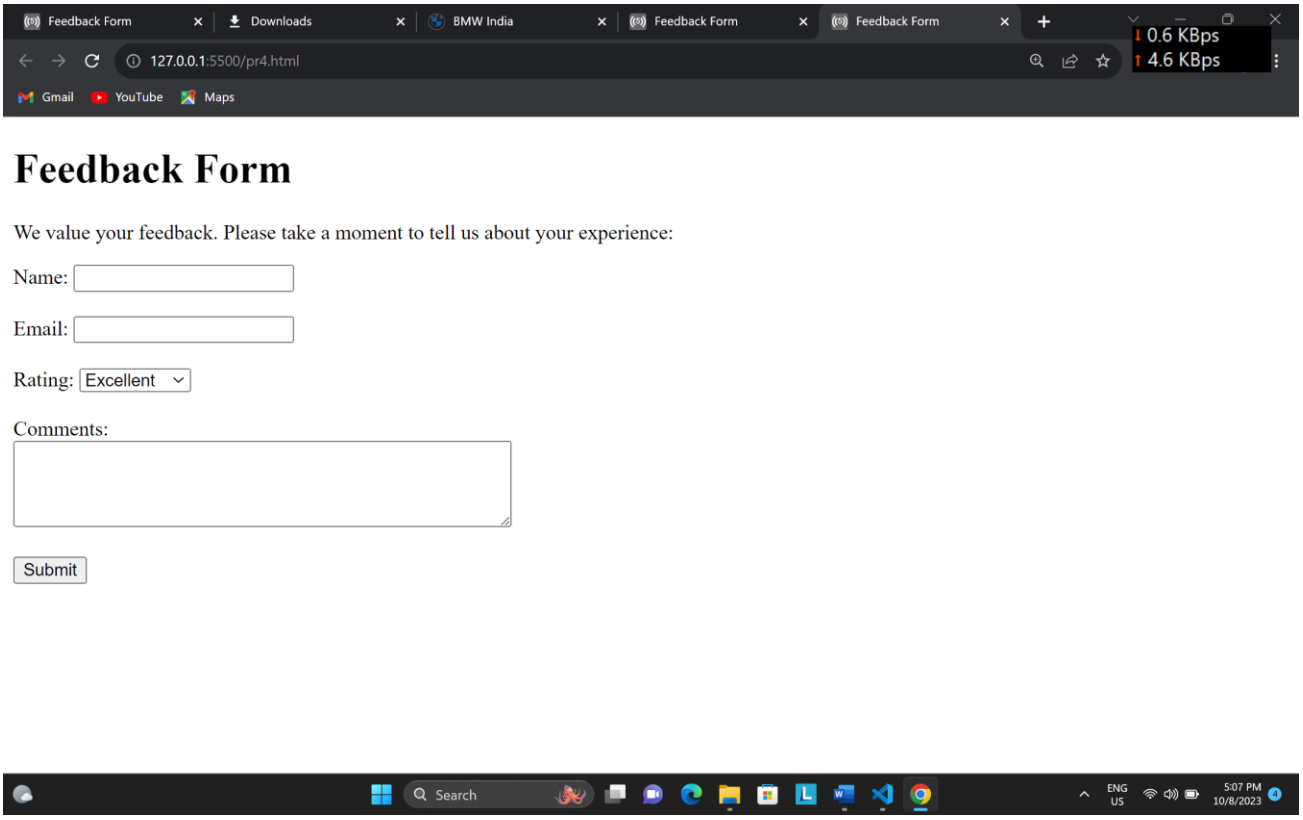


4.Create a feedback from using HTML code.

Ans:pr4.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Feedback Form</title>
</head>
<body>
    <h1>Feedback Form</h1>
    <p>We value your feedback. Please take a moment to tell us about your
experience:</p>

    <form action="submit_feedback.php" method="POST">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required><br><br>

        <label for="rating">Rating:</label>
        <select id="rating" name="rating" required>
            <option value="5">Excellent</option>
            <option value="4">Very Good</option>
            <option value="3">Good</option>
            <option value="2">Fair</option>
            <option value="1">Poor</option>
        </select><br><br>

        <label for="comments">Comments:</label><br>
        <textarea id="comments" name="comments" rows="4" cols="50"
required></textarea><br><br>

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

Output:


Feedback Form
Downloads
BMW India
Feedback Form
Feedback Form
127.0.0.1:5500/pr4.html
0.6 KBps
4.6 KBps
Gmail
YouTube
Maps
Feedback Form
We value your feedback. Please take a moment to tell us about your experience:
Name:
Email:
Rating: Excellent
Comments:
Submit
Search
ENG
US
5:07 PM
10/8/2023

5.Develop and demonstrate the usage of inline, internal and external style sheet using CSS Design a web page using CSS which includes the following:

- **Use different font styles**
- **Control the repetition of image with background-repeat and no-repeat property**
- **Define style for links as a: link, a: active, a: hover, a: visited**

Ans:Pr5.html

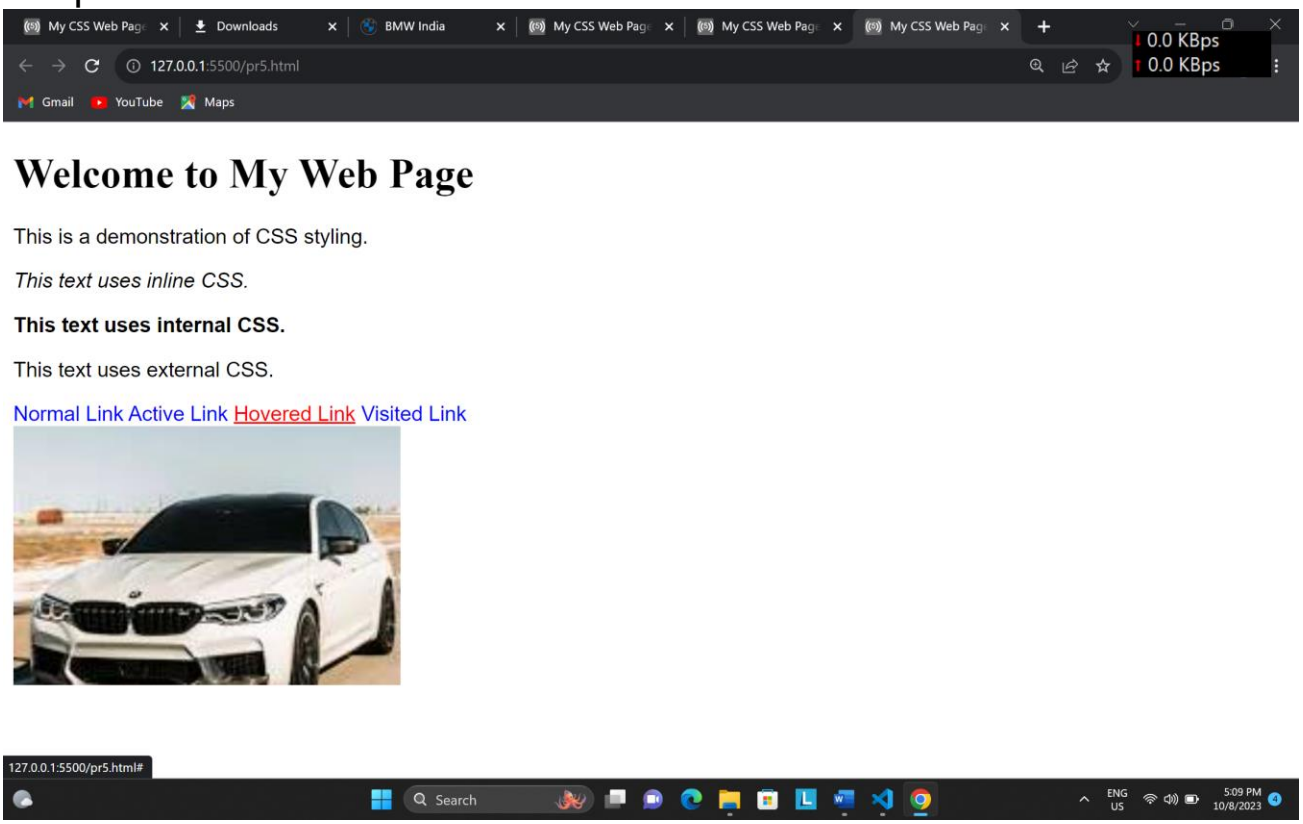
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My CSS Web Page</title>
    <!-- Include External CSS File -->
    <link rel="stylesheet" href="pr5.css">
</head>
<body>
    <h1>Welcome to My Web Page</h1>
    <p>This is a demonstration of CSS styling.</p>
    <p class="inline-style">This text uses inline CSS.</p>
    <p class="internal-style">This text uses internal CSS.</p>
    <p>This text uses external CSS.</p>
    <a href="#">Normal Link</a>
    <a href="#" class="active-link">Active Link</a>
    <a href="#" class="hover-link">Hovered Link</a>
    <a href="#" class="visited-link">Visited Link</a>
    <div class="image-container"></div>
</body>
</html>
```

Pr5.css

```
/* External CSS */
body {
    font-family: Arial, sans-serif;
}

h1 {
    font-family: 'Times New Roman', serif;
```

```
}

.inline-style {
    font-style: italic;
}

.internal-style {
    font-weight: bold;
}

.image-container {
    width: 300px;
    height: 200px;
    background-image: url('download.jpeg');
    background-repeat: no-repeat;
    background-size: cover;
}

/* Link Styles */
a:link {
    color: blue;
    text-decoration: none;
}

a:visited {
    color: purple;
    text-decoration: none;
}

a:hover {
    color: red;
    text-decoration: underline;
}

a:active {
    color: green;
    text-decoration: underline;
}
```

Output:


My CSS Web Page
Downloads
BMW India
My CSS Web Page
My CSS Web Page
My CSS Web Page
0.0 KBps
0.0 KBps
127.0.0.1:5500/pr5.html
Gmail
YouTube
Maps
Welcome to My Web Page
This is a demonstration of CSS styling.
This text uses inline CSS.
This text uses internal CSS.
This text uses external CSS.
Normal Link Active Link Hovered Link Visited Link
127.0.0.1:5500/pr5.html#
Search
ENG
US
5:09 PM
10/8/2023

6.Write a code for creating static page design using division tag

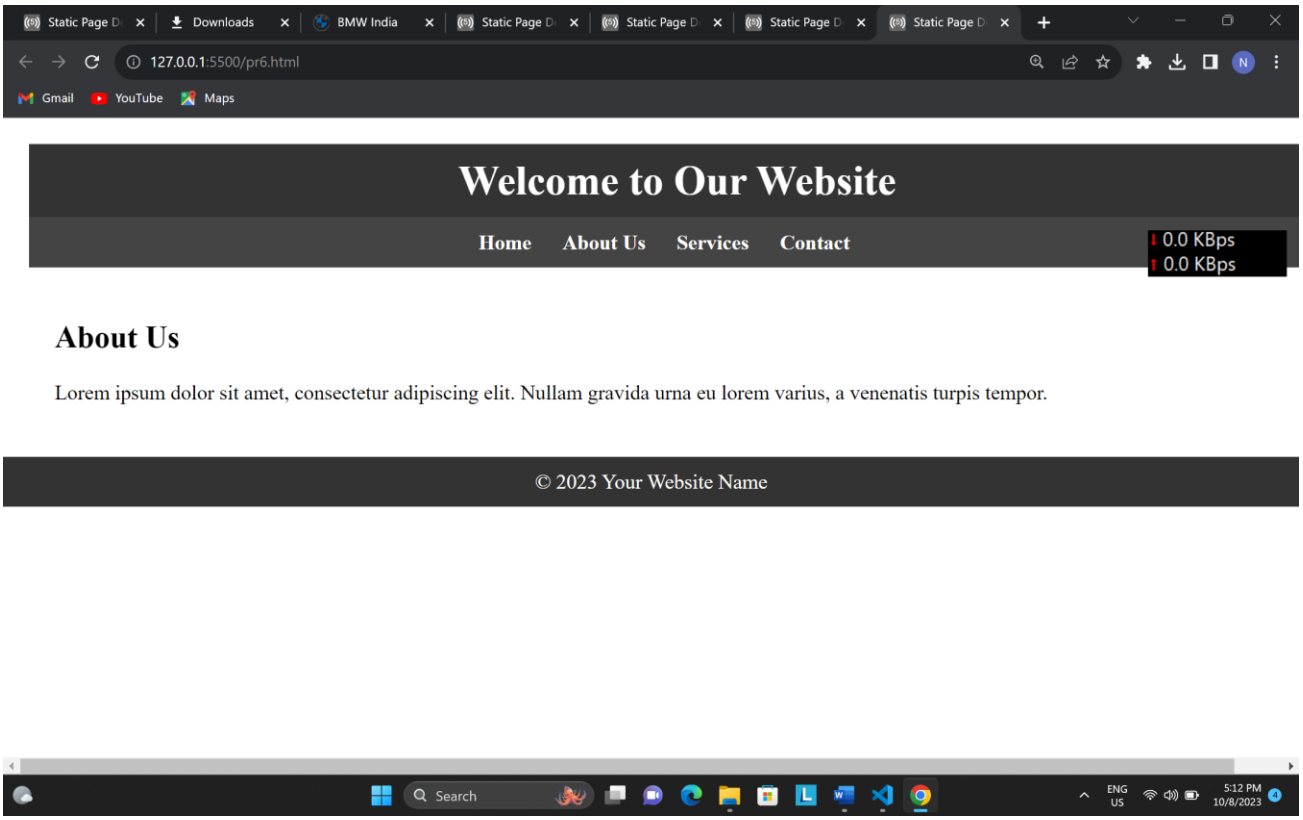
Ans:pr6.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Static Page Design</title>
    <style>
        /* Reset some default styles */
        body, h1, p {
            margin: 0;
            padding: 0;
        }

        /* Define the overall page container */
        .container {
            width: 100%;
            max-width: 1200px; /* Set a maximum width for the content */
            margin: 0 auto; /* Center the container horizontally */
            padding: 20px;
        }

        /* Define header styles */
        header {
            background-color: #333;
            color: #fff;
            padding: 10px 0;
            text-align: center;
        }

        /* Define navigation menu styles */
        nav {
            background-color: #444;
            padding: 10px;
        }

        nav ul {
            list-style-type: none;
            margin: 0;
            padding: 0;
            text-align: center;
        }
```

```
        nav ul li {
            display: inline;
            margin-right: 20px;
        }

        nav ul li a {
            text-decoration: none;
            color: #fff;
            font-weight: bold;
        }

        /* Define main content styles */
        .main-content {
            background-color: #fff;
            padding: 20px;
        }

        /* Define footer styles */
        footer {
            background-color: #333;
            color: #fff;
            padding: 10px 0;
            text-align: center;
        }
    </style>
</head>
<body>
    <div class="container">
        <header>
            <h1>Welcome to Our Website</h1>
        </header>
        <nav>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">About Us</a></li>
                <li><a href="#">Services</a></li>
                <li><a href="#">Contact</a></li>
            </ul>
        </nav>
        <div class="main-content">
            <h2>About Us</h2>
            <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam
gravida urna eu lorem varius, a venenatis turpis tempor.</p>
        </div>
```

```
    </div>
    <footer>
        &copy; 2023 Your Website Name
    </footer>
</body>
</html>
```

Output:

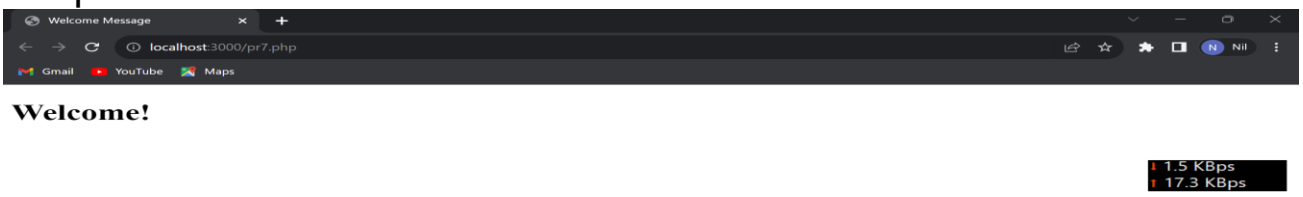


7.Write a PHP script to display welcome message.

Ans:Pr7.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Welcome Message</title>
</head>
<body>

<?php
    echo "<h1>Welcome!</h1>";
?>

</body>
</html>
```

Output:



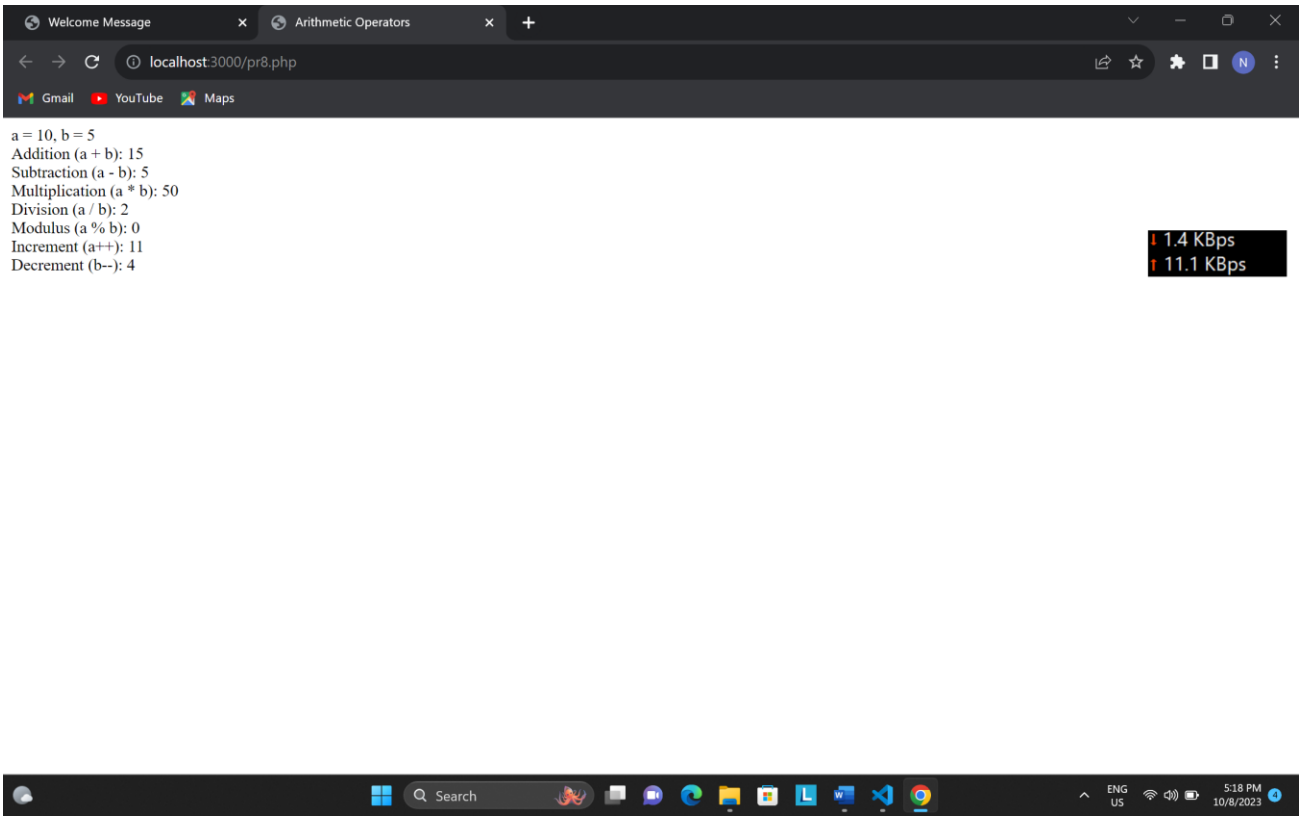
8.Write a php script to demonstrate use of arithmetic operators.

Ans:Pr8.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Arithmetic Operators</title>
</head>
<body>
    <?php
        $a = 10;
        $b = 5;

        echo "a = $a, b = $b <br>";


        $sum = $a + $b;
        echo "Addition (a + b): $sum <br>";


        $difference = $a - $b;
        echo "Subtraction (a - b): $difference <br>";


        $product = $a * $b;
        echo "Multiplication (a * b): $product <br>";

        $quotient = $a / $b;
        echo "Division (a / b): $quotient <br>";


        $remainder = $a % $b;
        echo "Modulus (a % b): $remainder <br>";


        $a++;
        echo "Increment (a++): $a <br>";

        $b--;
        echo "Decrement (b--): $b <br>";
    ?>
</body>
```

```
</html>
```

Output:

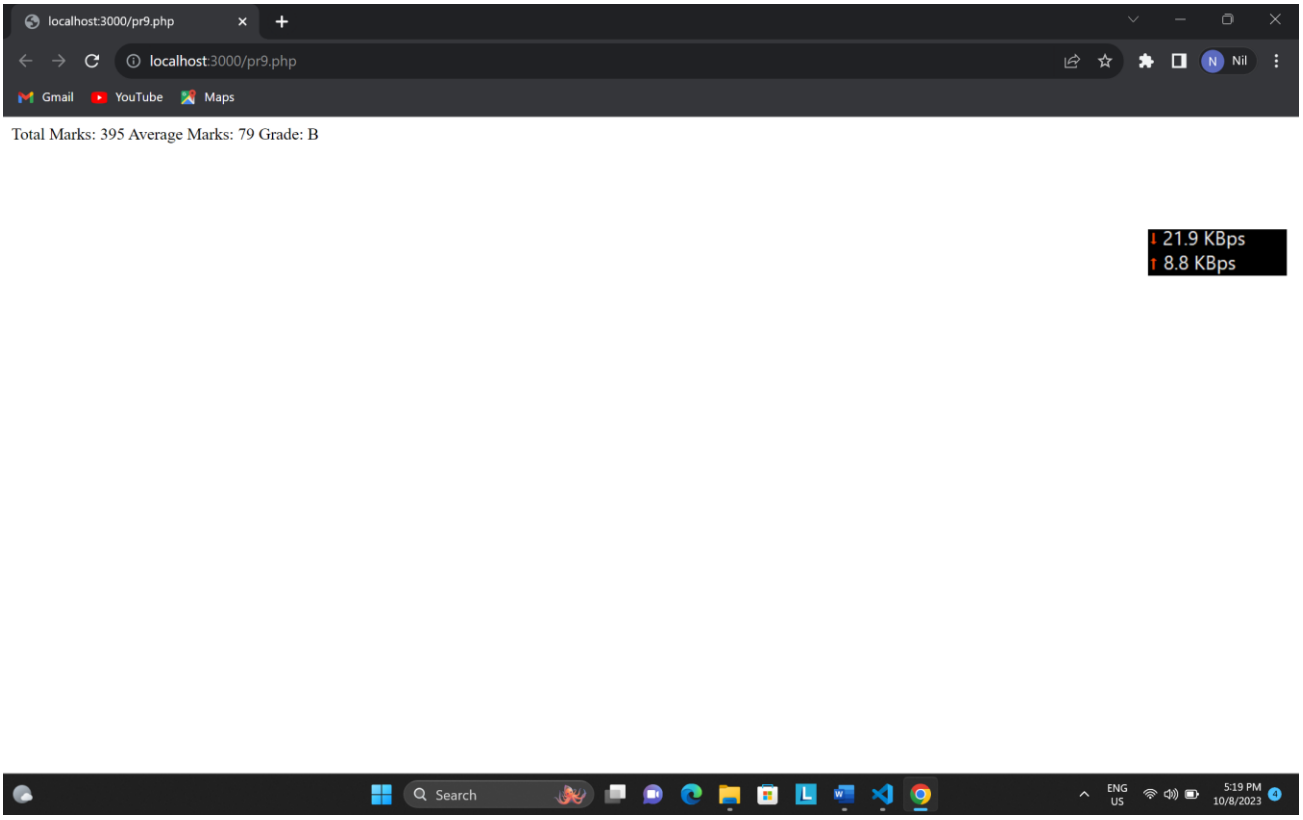

Welcome Message
Arithmetic Operators
localhost:3000/pr8.php
Gmail
YouTube
Maps
a = 10, b = 5
Addition (a + b): 15
Subtraction (a - b): 5
Multiplication (a * b): 50
Division (a / b): 2
Modulus (a % b): 0
Increment (a++): 11
Decrement (b--): 4
1.4 KBps
11.1 KBps
Search
ENG
US
5:18 PM
10/8/2023

9.Write a php script to calculate total marks of student and display grade.

Ans:Pr9.php

```php
<?php
$mathsMarks = 85;
$englishMarks = 78;
$scienceMarks = 92;
$historyMarks = 65;
$geographyMarks = 75;

$totalMarks = $mathsMarks + $englishMarks + $scienceMarks + $historyMarks +
$geographyMarks;

$averageMarks = $totalMarks / 5;
if ($averageMarks >= 90) {
    $grade = 'A+';
} elseif ($averageMarks >= 80) {
    $grade = 'A';
} elseif ($averageMarks >= 70) {
    $grade = 'B';
} elseif ($averageMarks >= 60) {
    $grade = 'C';
} elseif ($averageMarks >= 50) {
    $grade = 'D';
} else {
    $grade = 'F';
}
echo "Total Marks: $totalMarks\n";
echo "Average Marks: $averageMarks\n";
echo "Grade: $grade\n";
?>
```

Output:


localhost:3000/pr9.php
localhost:3000/pr9.php
Nil
Gmail
YouTube
Maps
Total Marks: 395 Average Marks: 79 Grade: B
21.9 KBps
8.8 KBps
Search
ENG
US
5:19 PM
10/8/2023

10.Create form using text box, check box, radio button, select submit button and display user inserted value in new php page

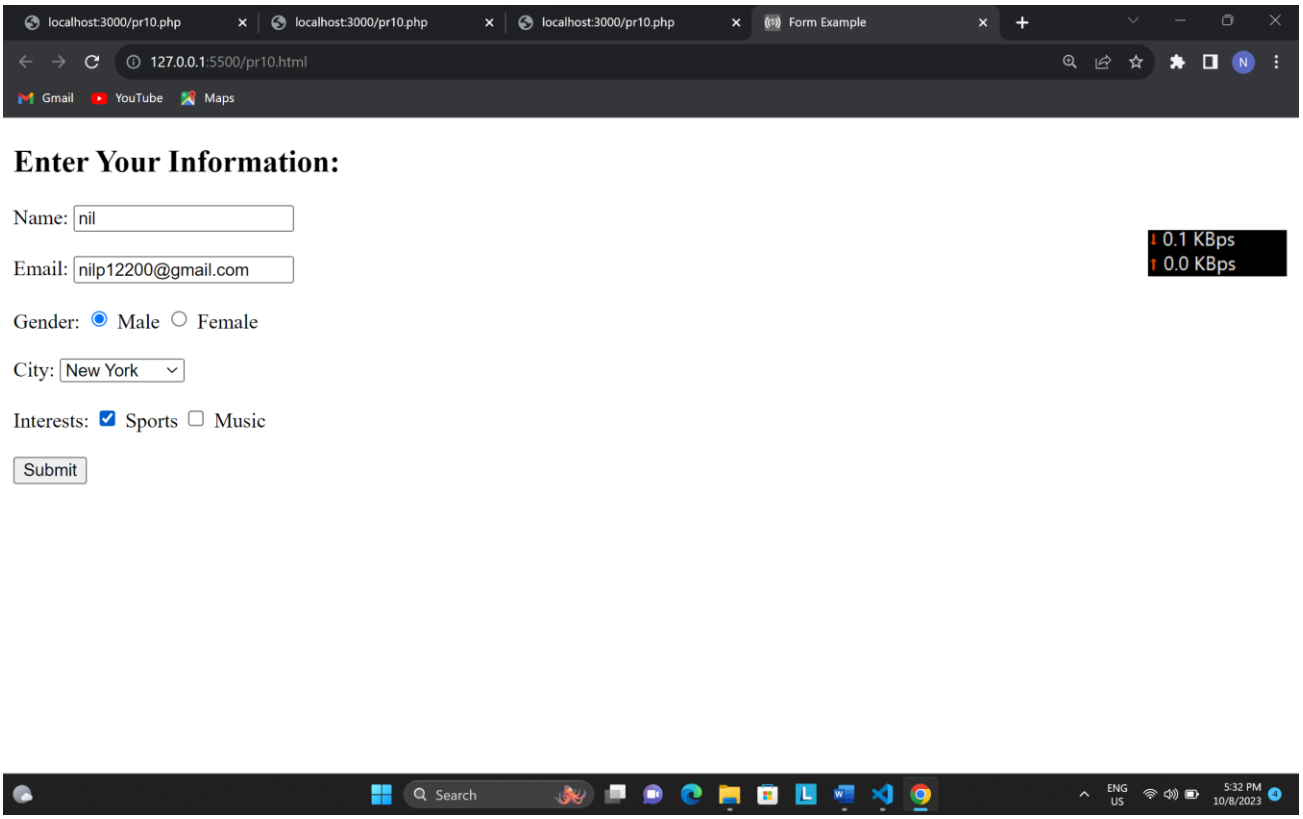
Ans:Pr10.html

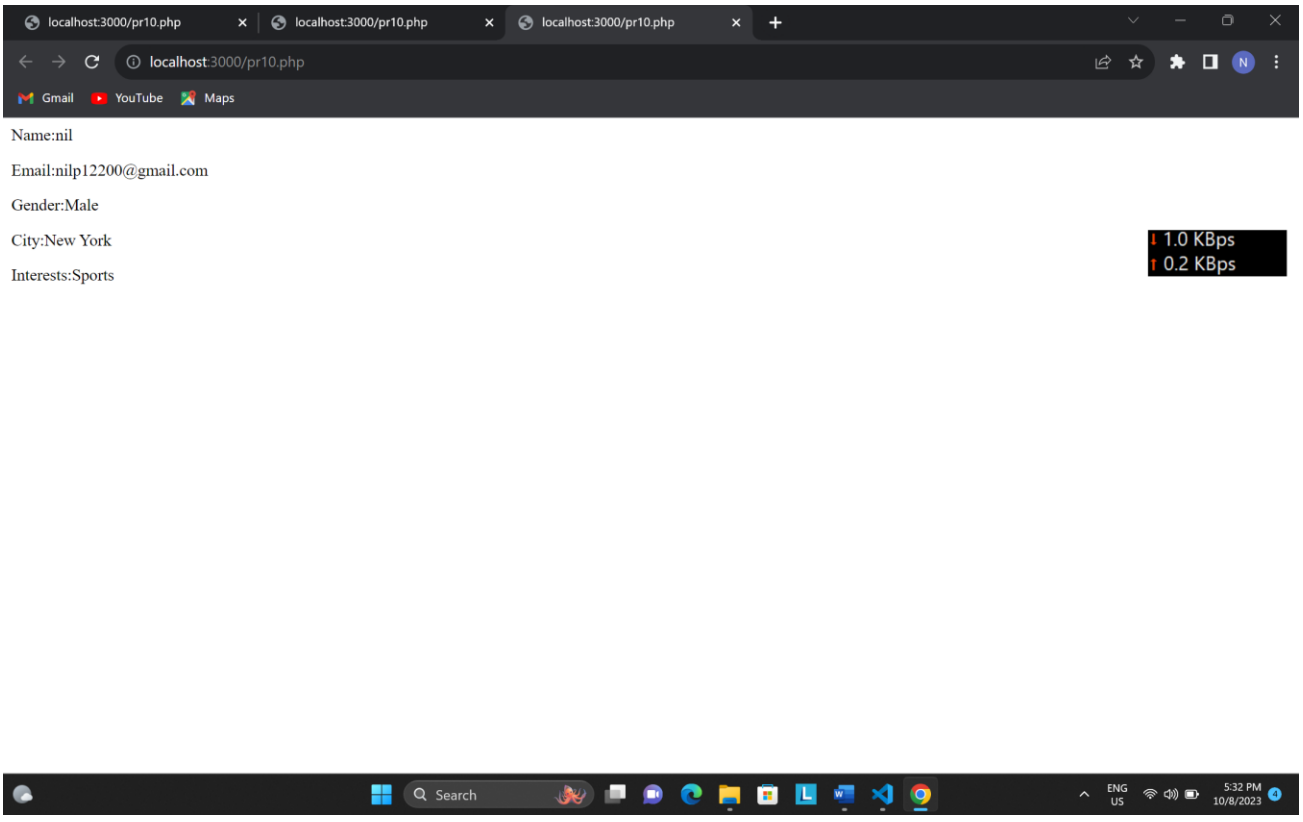
```
<!DOCTYPE html>
<html>
<head>
    <title>Form Example</title>
</head>
<body>
    <h2>Enter Your Information:</h2>
     <form action="pr10.php" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="email">Email:</label>
        <input type="text" id="email" name="email" required><br><br>

        <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><br><br>

        <label for="city">City:</label>
        <select id="city" name="city">
            <option value="New York">New York</option>
            <option value="Los Angeles">Los Angeles</option>
            <option value="Chicago">Chicago</option>
        </select><br><br>

        <label for="interests">Interests:</label>
        <input type="checkbox" id="sports" name="interests[]" value="Sports">
        <label for="sports">Sports</label>
        <input type="checkbox" id="music" name="interests[]" value="Music">
        <label for="music">Music</label><br><br>

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


</body>
</html>
```

pr10.php

```php
<?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $name = $_POST["name"];
        $email = $_POST["email"];
        $gender = $_POST["gender"];
        $city = $_POST["city"];
        $interests = isset($_POST["interests"]) ? $_POST["interests"] : [];

        echo "<p>Name: Nil</p>";
        echo "<p>Email: $email</p>";
        echo "<p>Gender: $gender</p>";
        echo "<p>City: $city</p>";

        if (!empty($interests)) {
            echo "<p>Interests: " . implode(", ", $interests) . "</p>";
        } else {
            echo "<p>No interests selected.</p>";
        }
    }


    ?>
```

Output:


localhost:3000/pr10.php
localhost:3000/pr10.php
localhost:3000/pr10.php
Form Example
127.0.0.1:5500/pr10.html
Gmail
YouTube
Maps
Enter Your Information:
Name: nil
Email: nilp12200@gmail.com
Gender: Male Female
City: New York
Interests: Sports Music
Submit
0.1 KBps
0.0 KBps
Search
ENG
US
5:32 PM
10/8/2023


localhost:3000/pr10.php
localhost:3000/pr10.php
localhost:3000/pr10.php
localhost:3000/pr10.php
Gmail
YouTube
Maps
Name:nil
Email:nilp12200@gmail.com
Gender:Male
City:New York
Interests:Sports
1.0 KBps
0.2 KBps
Search
ENG
US
5:32 PM
10/8/2023

11.Write a program to upload image with extension .gif, .jpeg and .png. Design a web page in PHP which allows user to upload file with following restrictions.

- **Only “pdf” and “jpeg” file can be uploaded.**
- **File size should not exceed 1000KB.**

Ans:Pr11.html

```
<!DOCTYPE html>
<html>
<head>
    <title>File Upload</title>
</head>
<body>
    <h2>Upload PDF or JPEG Files</h2>


    <form action="pr11.php" method="post" enctype="multipart/form-data">
        <label for="file">Choose a file:</label>
        <input type="file" id="file" name="file" accept=".pdf, .jpeg"><br><br>

        <input type="submit" value="Upload">
    </form>


</body>
</html>
```

Pr11.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
    <?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $target_dir = "uploads/";
    $target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
```

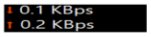
```
    $uploadOk = 1;
  $imageFileType = strtolower(pathinfo($target_file, PATHINFO_EXTENSION));
    if ($imageFileType != "pdf" && $imageFileType != "jpeg") {
        echo "Sorry, only PDF and JPEG files are allowed.";
        $uploadOk = 0;
    }
    if ($_FILES["fileToUpload"]["size"] > 1000000) { // 1000KB = 1000000 bytes
        echo "Sorry, your file is too large (maximum 1000KB allowed).";
        $uploadOk = 0;
    }
    if ($uploadOk == 0) {
        echo "Your file was not uploaded.";
    } else {
        if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $target_file)) {
            echo "The file " .
htmlspecialchars(basename($_FILES["fileToUpload"]["name"])) . " has been uploaded.";
        } else {
            echo "Sorry, there was an error uploading your file.";
        }
    }
}
?>

</body>
</html>
```

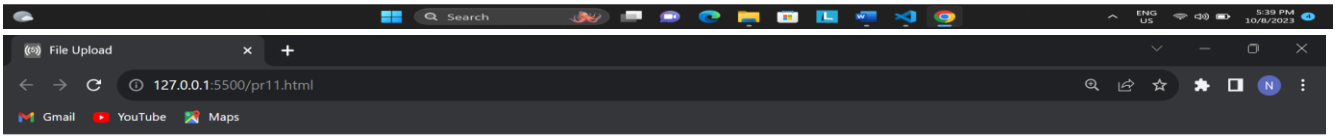
Output:

Upload PDF or JPEG Files

Choose a file: Choose File No file chosen

Upload

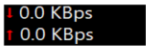


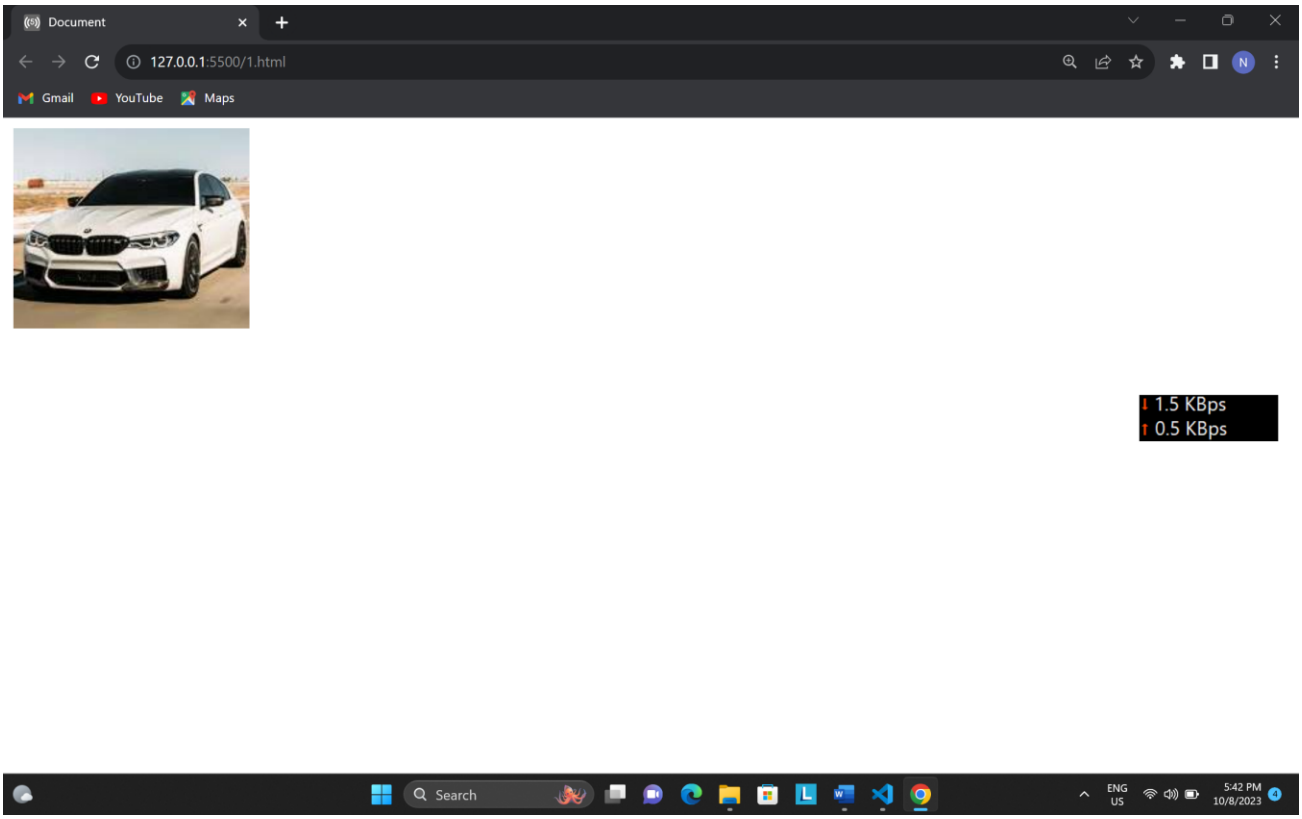


Upload PDF or JPEG Files

Choose a file: Choose File download.jpeg

Upload




Document
127.0.0.1:5500/1.html
Gmail
YouTube
Maps
1.5 KBps
0.5 KBps
Search
ENG
US
5:42 PM
10/8/2023

12.Write a program to read input data from table and hyperlink while displaying record and display that practical record on another page.

Pr12.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Table with Hyperlinks</title>
</head>
<body>
    <h2>Table with Hyperlinks</h2>

    <table border="1" cellpadding="5" cellspacing="0" width="80%">
        <caption>Employee Information</caption>
        <tr>
            <th>Name</th>
            <th>Age</th>
            <th>Action</th>
        </tr>
        <tr>
            <td>NIl</td>
            <td>20</td>
            <td><a href="pr12.php?name=NIL&age=20">View</a></td>
        </tr>
        <tr>
            <td>yash</td>
            <td>20</td>
            <td><a href="pr12.php?name=yash&age=20">View</a></td>
        </tr>
    </table>

</body>
</html>
```

Pr12.php

```
 <!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
```

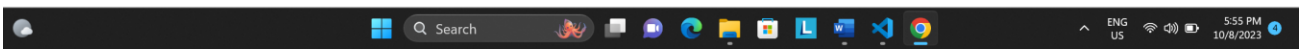
```php
<body>
<?php

    if (isset($_GET['name']) && isset($_GET['age'])) {
        $name = $_GET['name'];
        $age = $_GET['age'];

        echo "<p>Name: $name</p>";
        echo "<p>Age: $age</p>";


    } else {
        echo "Record not found.";
    }
    ?>

</body>
</html>
```

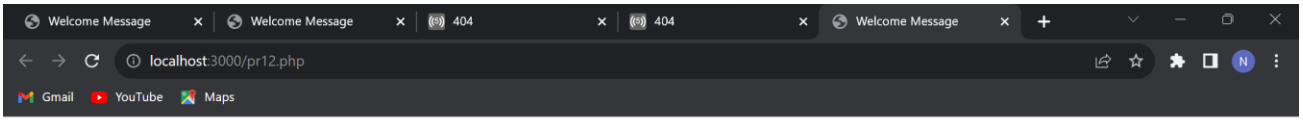
Output:

Table with Hyperlinks

Employee Information

Name	Age	Action
NII	20	View
yash	20	View

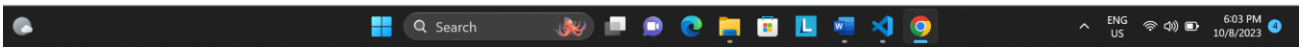




view record

NIL

20



13.Write a program to manipulate data from table and display all this information using table format.

Ans:Pr13.php

```
<!DOCTYPE html>
<html>
<head>
    <title>Table with Data</title>
</head>
<body>
    <h2>Table with Data</h2>
    <?php

        $data = [
            ['NIL', 'Patel', '20', 'India'],
            ['yash', 'joshi', '25', 'India'],
            ['jaimin', 'patel', '35', 'USA'],

        ];

        echo '<table border="1">';
        echo '<tr><th>First Name</th><th>Last
Name</th><th>Age</th><th>City</th></tr>';

        foreach ($data as $row) {
            echo '<tr>';
            foreach ($row as $value) {
                echo '<td>' . $value . '</td>';
            }
            echo '</tr>';
        }

        echo '</table>';
    ?>
</body>
</html>
```

Output:

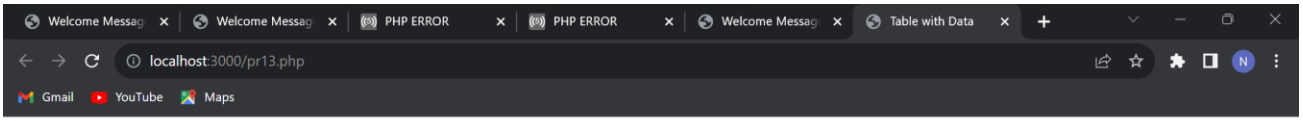
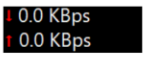
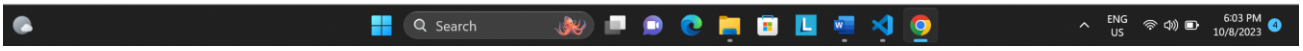


Table with Data

First Name	Last Name	Age	City
NIL	Patel	20	India
yash	joshi	25	India
jaimin	patel	35	USA





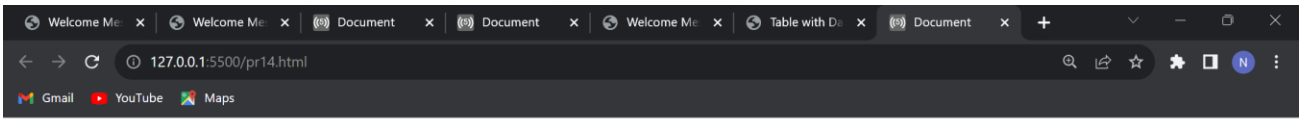
14. Design a XSLT to read data from XML File and print it in tabular manner. Use XML file of store book information like its name, author, publisher and price for at least two books regarding the DTD for the same file.

Ans:Books.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE bookstore [
    <!ELEMENT bookstore (book+)>
    <!ELEMENT book (name, author, publisher, price)>
    <!ELEMENT name (#PCDATA)>
    <!ELEMENT author (#PCDATA)>

    <!ELEMENT price (#PCDATA)>
]>
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <head>
        <style>
          table {
            width: 100%;
            border-collapse: collapse;
          }
          th, td {
            border: 1px solid #ddd;
            padding: 8px;
            text-align: left;
          }
        </style>
      </head>
      <body>
        <h1>Bookstore Inventory</h1>
        <table>
          <tr>
            <th>Title</th>
            <th>Author</th>
            <th>Publisher</th>
            <th>Price</th>
          </tr>
          <xsl:for-each select="bookstore/book">
```

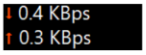
```
            <tr>
              <td><xsl:value-of select="title"/></td>
              <td><xsl:value-of select="author"/></td>
              <td><xsl:value-of select="publisher"/></td>
              <td><xsl:value-of select="price"/></td>
            </tr>
          </xsl:for-each>
        </table>
      </body>
    </html>
  </xsl:template>
</xsl:stylesheet>

<bookstore>
    <book>
        <name>Book 1</name>
        <author>Author 1</author>
        <publisher>Publisher A</publisher>
        <price>19.99</price>
    </book>
    <book>
        <name>Book 2</name>
        <author>Author 2</author>
        <publisher>Publisher B</publisher>
        <price>14.99</price>
    </book>
</bookstore>
```

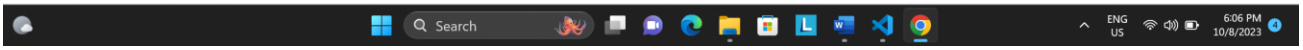
Output:



book Information

Name	author	price
rich dad poor dad	Nil patel	500
gkbook	Joshi yash	55,000
water management	jaimin patel	60,000





15.Design HTML form with java script to perform following task:

- **To show “You Clicked Me” message when a user clicks on button “Click Me”.**
- **Takes Integer number as input and tells whether the number is ODD or EVEN.**
- **Takes two real numbers as input and perform arithmetic’s operation chosen by user from list of radio button.**

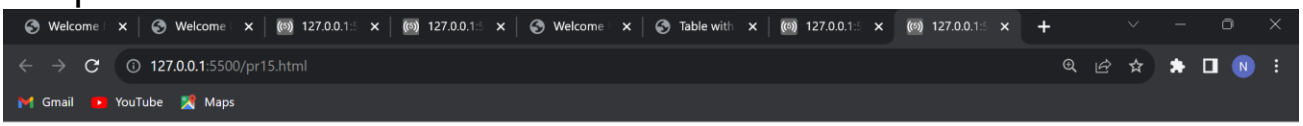
Ans:Pr15.html

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


</head>
<body>

    <h2>Task 1: Show Message on Button Click</h2>
    <button id="clickButton">Click Me</button>
    <p id="message"></p>

    <h2>Task 2: Check if Number is ODD or EVEN</h2>
    <label for="numberInput">Enter an Integer Number:</label>
    <input type="text" id="numberInput">
    <button id="checkOddEven">Check</button>
    <p id="oddEvenResult"></p>

    <h2>Task 3: Arithmetic Operations</h2>
    <label for="num1">Enter First Number:</label>
    <input type="text" id="num1"><br><br>

    <label for="num2">Enter Second Number:</label>
    <input type="text" id="num2"><br><br>

    <label>Choose an Operation:</label>
    <input type="radio" name="operation" value="add"> Addition
    <input type="radio" name="operation" value="subtract"> Subtraction
    <input type="radio" name="operation" value="multiply"> Multiplication
    <input type="radio" name="operation" value="divide"> Division<br><br>
```

```
    <button id="performOperation">Perform Operation</button>
    <p id="operationResult"></p>

    <script>
        document.getElementById("clickButton").addEventListener("click", function()
{
            document.getElementById("message").innerHTML = "You Clicked Me";
        });
        document.getElementById("checkOddEven").addEventListener("click", function()
{
            var number = parseInt(document.getElementById("numberInput").value);
            if (isNaN(number)) {
                document.getElementById("oddEvenResult").innerHTML = "Please enter a
valid number.";
            } else if (number % 2 === 0) {
                document.getElementById("oddEvenResult").innerHTML = "The number is
EVEN.";
            } else {
                document.getElementById("oddEvenResult").innerHTML = "The number is
ODD.";
            }
        });
        document.getElementById("performOperation").addEventListener("click",
function() {
            var num1 = parseFloat(document.getElementById("num1").value);
            var num2 = parseFloat(document.getElementById("num2").value);
            var operation =
document.querySelector('input[name="operation"]:checked').value;

            if (isNaN(num1) || isNaN(num2)) {
                document.getElementById("operationResult").innerHTML = "Please enter
valid numbers.";
            } else {
                switch (operation) {
                    case "add":
                        document.getElementById("operationResult").innerHTML =
"Result: " + (num1 + num2);
                        break;
                    case "subtract":
                        document.getElementById("operationResult").innerHTML =
"Result: " + (num1 - num2);
                        break;
                    case "multiply":
                        document.getElementById("operationResult").innerHTML =
"Result: " + (num1 * num2);
```

```
                    break;
                case "divide":
                    if (num2 === 0) {
                        document.getElementById("operationResult").innerHTML =
"Cannot divide by zero.";
                    } else {
                        document.getElementById("operationResult").innerHTML =
"Result: " + (num1 / num2);
                    }
                    break;
                default:
                    document.getElementById("operationResult").innerHTML =
"Please select an operation.";
            }
        }
    });
    </script>
</body>
</html>
```

Output:



Task 1: Show Message on Button Click

Click Me

You Clicked Me

Task 2: Check if Number is ODD or EVEN

Enter an Integer Number: 3 Check

The number is ODD.

0.4 KBps
0.2 KBps

Task 3: Arithmetic Operations

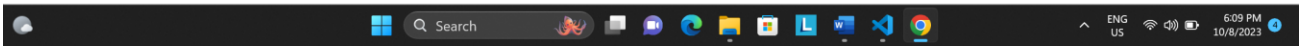
Enter First Number: 3

Enter Second Number: 2

Choose an Operation: Addition Subtraction Multiplication Division

Perform Operation

Result: 5



16.Design HTML form with java script for registration purpose with following constraints:

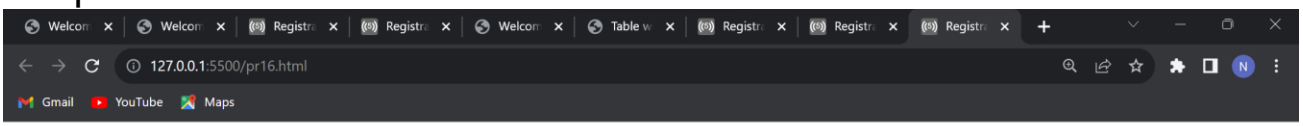
- **Name accepts only alphabet character**
- **Mobile Number with exactly 10 characters**
- **Email Id in valid format**
- **Display hint on mouse over the textbox**

Ans:Pr16.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Registration Form</title>

</head>
<body>
    <h2>Registration Form</h2>
    <form id="registrationForm" onsubmit="return validateForm()">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" placeholder="Enter your name"
onmouseover="displayHint('Name should contain only alphabet characters.')"><br><br>

        <label for="mobile">Mobile Number:</label>
        <input type="text" id="mobile" name="mobile" placeholder="Enter your mobile
number" onmouseover="displayHint('Mobile number should have exactly 10
characters.')"><br><br>

        <label for="email">Email:</label>
        <input type="text" id="email" name="email" placeholder="Enter your email"
onmouseover="displayHint('Email should be in a valid format.')"><br><br>

        <input type="submit" value="Register">
    </form>

    <p id="hint"></p>

    <script>
        function validateForm() {

            var name = document.getElementById("name").value;
            if (!/^[A-Za-z]+$/.test(name)) {
```

```
            alert("Name should contain only alphabet characters.");
            return false;
        }

        var mobile = document.getElementById("mobile").value;
        if (mobile.length !== 10 || !/^\d+$/.test(mobile)) {
            alert("Mobile number should have exactly 10 digits.");
            return false;
        }
        var email = document.getElementById("email").value;
        if (!/^[\w-]+(\.[\w-]+)*@([\w-]+\.)+[a-zA-Z]{2,7}$/.test(email)) {
            alert("Email should be in a valid format.");
            return false;
        }

        return true;
    }

    function displayHint(hintText) {
        document.getElementById("hint").innerHTML = hintText;
    }
</script>
</body>
</html>
```

Output:



Registration Form

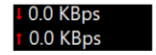
Name: nil

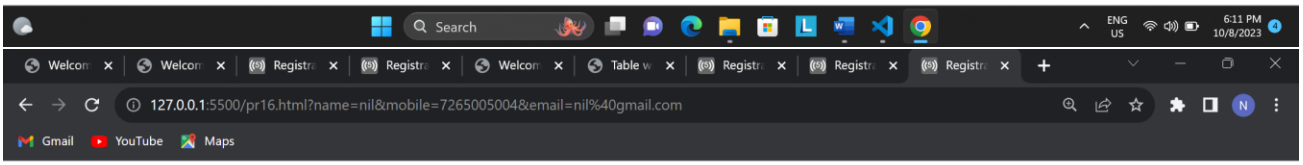
Mobile Number: Enter your mobile number

Email: Enter your email

Register

Name should contain only alphabet characters.



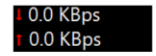
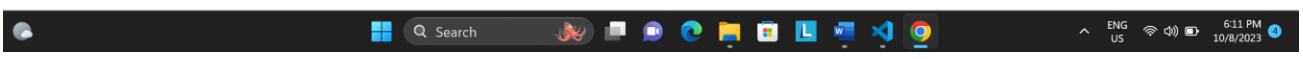


Registration Form

Name: nil

Mobile Number: 7265005004

Email: nil@gmail.com

Register

Email should be in a valid format.