# HTML and CSS

1. Create a webpage that contains
   - An image of car with height 120px, width 120px and alternative text for image "Cars"
   - Any image that contain client side imagemap that redirects to any page available online.
   - Any image that returns the coordinates of the clicked area to URL (use server side imagemap)

**SOURCE CODE**

```
<html>
<head>
  <title>Car Images with Image Maps</title>
</head>
<body>
  <img src="car.jpg" alt="Cars" height="120" width="120">
 <h3> client side Image map</h3>
  <img src="nature.jpg" usemap="#map" height="240"  width="240">
  <map name="map">
    <area shape="rect" coords="0,0,472,542" href="https://www.nature.org/en-us/" alt="Google" target="_blank">
  </map>
 <h3>Server-Side Image Map Example</h3> <img src="fur.jpeg" usemap="#example" height="440" width="440">
  <map name="example">
   <area shape="rect" coords="0,0,160,170" href="https://www.google.com" target="_blank">
   <area shape="circle" coords="0,0,400,400" href="https://www.bing.com" target="_blank">
  </map>
</body>
</html>
```
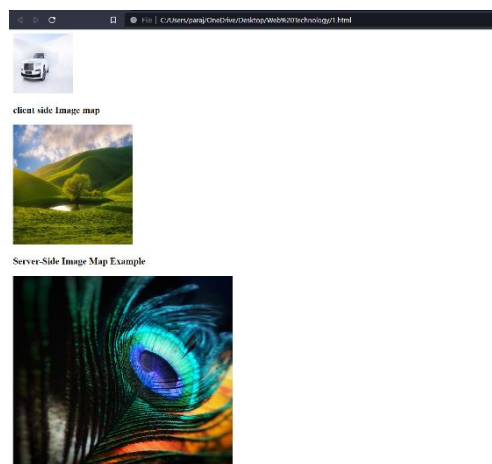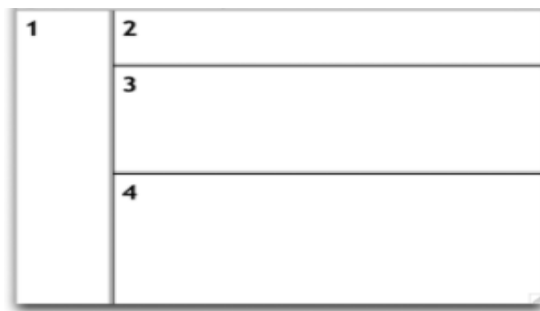
**OUTPUT**

**2.** Design the following using HTML using the concept of nested frameset
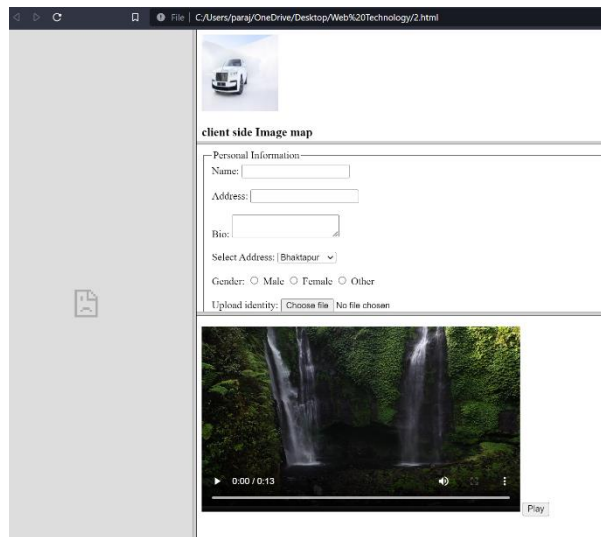


Frame1 should contain three links, the first should be opened in frame 2, second in frame 3and third in frame 4.

**SOURCE CODE**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>lab5</title>
</head>
<frameset cols="20%,80%">
<frameset rows="">
<frame src="1.html.html"></frame>
</frameset>
<frameset rows="20,30,50">
<frame src="1.html"></frame>
<frame src="form.html"></frame>
<frame src="video.html"></frame>
</frameset>
</frameset>
<body>
</body>
```

</html>

**OUTPUT**



---

3. **Create a webpage containing paragraph and an inline frame that loads any website.**

**SOURCE CODE**

```
<html>

<head>

        <title>Inline Frame Example</title>

</head>

<body>

        <p> I am paragraph. Here is an inline frame that loads an external website:</p>

        <iframe src="https://en.wikipedia.org/wiki/Himalayas" width="75%"
height="500px"></iframe>

</body>

</html>
```
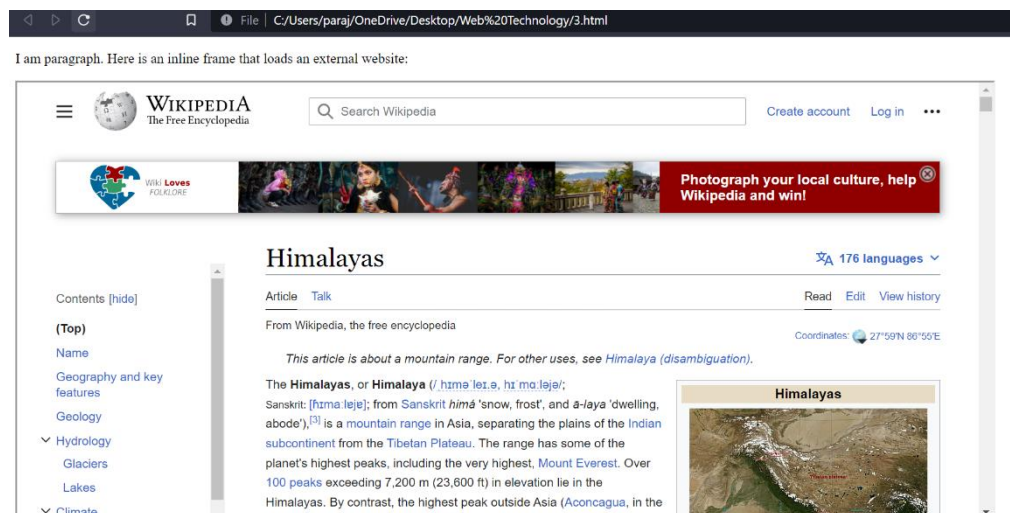
**OUTPUT**

4. **Design a form in HTML using fieldset and legend that contains the following fields**
   - **Name as input type –text**
   - **Address as input type-text**
   - **A multiline text for Bio**
   - **A dropdown for address**
   - **A radio button for gender**
   - **A file input for identity upload**
   - **A password type input for contact number**
   - **A submit button**

**SOURCE CODE**

```html
<html>
<head>
 <title></title>
</head>
<body>
 <form>
 <fieldset>
  <legend>Personal Information</legend>
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required><br><br>
  <label for="address">Address:</label>
  <input type="text" id="address" name="address" required><br><br>
  <label for="bio">Bio:</label>
  <textarea id="bio" name="bio"></textarea><br><br>
  <label for="dropdown">Select Address:</label>
  <select id="dropdown" name="dropdown">
   <option value="option1">Bhaktapur</option>
   <option value="option2">Kathmandu </option>
   <option value="option3">Lalitpur</option>
  </select><br><br>
  <label>Gender:</label>
  <input type="radio" id="male" name="gender" value="male">
```

```html
    <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><br><br>

    <label for="identity">Upload identity:</label>

    <input type="file" id="identity" name="identity"><br><br>

    <label for="contact">Contact Number:</label>

    <input type="password" id="contact" name="contact" required><br><br>

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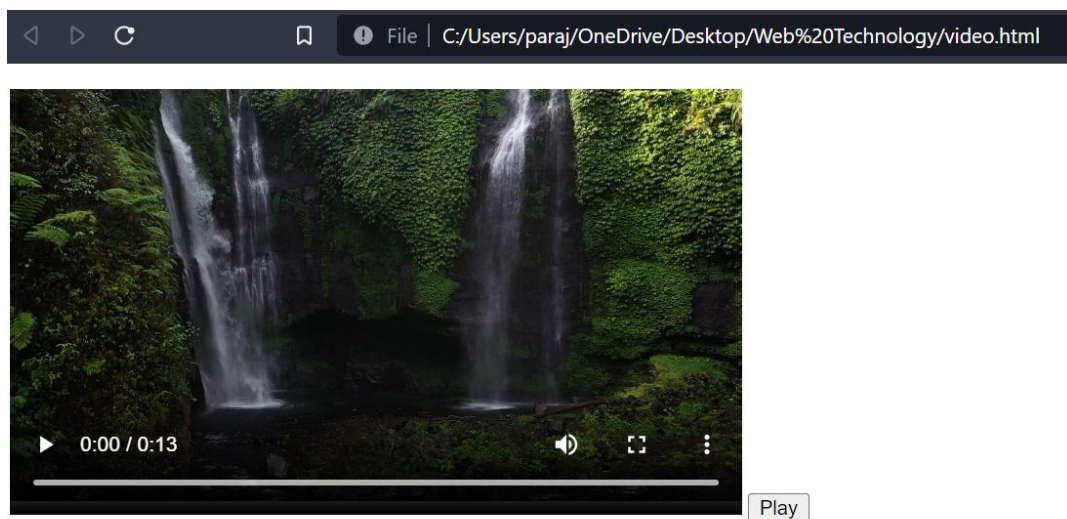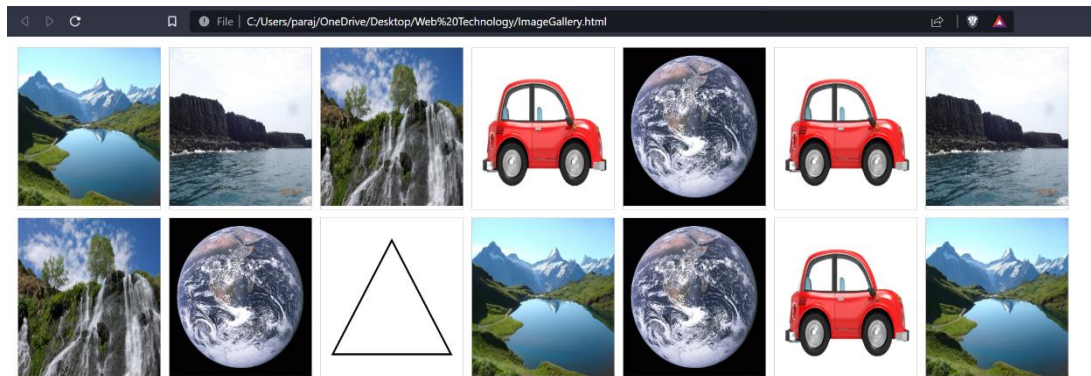
**OUTPUT**



5.  **Embed a video with the separate play button using HTML 5.**

**SOURCE CODE**

```html
<html>
<head>
```

```html
    <title></title>
</head>
<body>
  <video width="500" height="300" controls>
  <source src="nature.mp4" height=400 width=400 type="video/mp4">
  Your browser does not support the video tag.
</video>
<button onclick="document.querySelector('video').play()">Play</button>
</body>
</html>
```

**OUTPUT**



6.  **Create a simple image gallery using CSS.**

**SOURCE CODE**

```html
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Image Gallery</title>
   <style>
```

```html
    div.img {

    margin: 5px;

    border: 1px solid #ccc;

    float: left;

    width: 180px;

    }

    div.img:hover {

    border: 1px solid red;

    }

    div.img img {

    width: 100%;

    }

    </style>

</head>

<body>

    <div class="container">

      <div class="img">

        <img src="mountain.jpg" height="200" width="200" alt="mountain">

      </div>

      <div class="img">

        <img src="sea.jpg" height="200" width="200" alt="sea">

      </div>

      <div class="img">

        <img src="waterfall.jpg" height="200" width="200" alt="waterfall">

      </div>

      <div class="img">

        <img src="car.png" height="200" width="200" alt="TOY CAR">

      </div>

      <div class="img">

        <img src="earth.jpg" height="200" width="200" alt="earth">

      </div>
```

```html
    <div class="img">
        <img src="car.png" height="200" width="200" alt="TOY CAR">
    </div>
    <div class="img">
        <img src="sea.jpg" height="200" width="200" alt="sea">
    </div>
    <div class="img">
        <img src="waterfall.jpg" height="200" width="200" alt="waterfall">
    </div>
    <div class="img">
        <img src="earth.jpg" height="200" width="200" alt="earth">
    </div>
    <div class="img">
        <img src="triangle.png" height="200" width="200" alt="earth">
    </div>
    <div class="img">
        <img src="mountain.jpg" height="200" width="200" alt="mountain">
    </div>
    <div class="img">
        <img src="earth.jpg" height="200" width="200" alt="earth">
    </div>
    <div class="img">
        <img src="car.png" height="200" width="200" alt="TOY CAR">
    </div>
    <div class="img">
        <img src="mountain.jpg" height="200" width="200" alt="mountain">
    </div>
  </div>
</body>
</html>
```

**OUTPUT**



7. **Create a striped table using CSS.**

**SOURCE CODE**

```
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Zebra Strip Table</title>
  <style>
    table {
      width: 100%;
      border-collapse: collapse;
    }
    th,
    td {
      padding: 8px;
      text-align: left;
      border-bottom: 1px solid #ddd;
    }
    tbody tr:nth-child(odd) {
      background-color: #f2f2f2;
```

```html
        }
        tbody tr:nth-child(even) {
          background-color: #fff;
        }
      </style>
  </head>
  <body>
    <table>
      <tr>
        <th>Roll No</th>
        <th>First Name</th>
        <th>Last Name</th>
      </tr>
      <tr>
        <td>9</td>
        <td>Ram</td>
        <td>Sharma</td>
      </tr>
      <tr>
        <td>19</td>
        <td>Shyam</td>
        <td>Poudel</td>
      </tr>
      <tr>
        <td>22</td>
        <td>Sundar</td>
        <td>Shrestha</td>
      </tr>
      <tr>
        <td>30</td>
        <td>Nabin</td>
```

```
        <td>Thapa</td>

      </tr>

    </table>

</body>

</html>
```

**OUTPUT**

8. **Create  a link and apply CSS in such way that the links may represents different color for different events. For example, while hovering, it may be displayed in red color, after  visiting the link it may be displayed in yellow, etc.**

**SOURCE CODE**

```
<!DOCTYPE html>

<html>

<head>

  <title>Link with CSS</title>

  <style>

    a {

      color: blue;

      text-decoration: none;

    }

    a:hover {

      color: red;

      text-decoration: underline;

    }

    a:visited {

      color: purple;
```

```
        }
        a:active {
            color: green;
        }
    </style>
</head>
<body>
    <!-- link -->
    <a href="https://www.example.com">Here is a link to diplay link in different color as per user
action</a>
</body>
</html>
```

**OUTPUT**
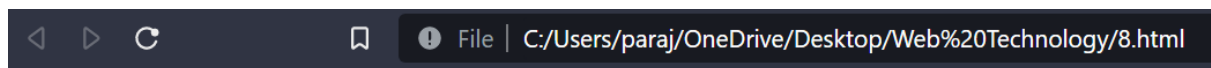


Here is a link to diplay link in different color as per user action

# JAVASCRIPT

1. **Write a JavaScript conditional statement to sort three numbers. Display an alert box toshow the result.**

**SOURCE CODE**

```html
<html>
<head>
  <meta charset="utf-8">
  <title></title>
</head>
<body>
</body>
<script>
  var temp,ok;
  let a=[];
  a[0]=9;
  a[1]=3;
  a[2]=1;
  for(i=0;i<3;i++)
  {
    ok=a[i];
    for(j=0;j<3;j++)
    {
      if(a[i]<a[j])
      {
        temp=a[i];
        a[i]=a[j];
        a[j]=temp;
      }
    }
  }
```

```
    console.log(a[0])

    alert("The sorting number is"+" "+a[0]+" "+a[1]+" "+a[2]);

</script>

</html>
```

**OUTPUT**

This page says

The sorting number is 1 3 9

OK
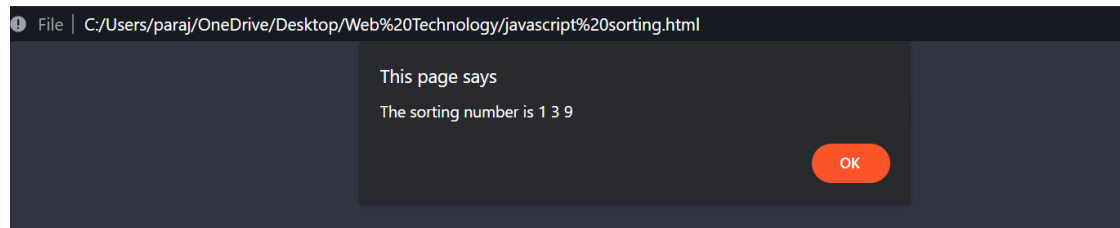
2. **Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check ifthe current number is odd or even, and display a message to the screen.**

**SOURCE CODE**

```
<html>

<head>

  <title></title>

</head>

<body>

  <p>

</body>

<script>

  for(i=0;i<=15;i++)

  {

    if(i%2==0)

    {

      document.write(i+ " is Even Number"+ "<br>");

    }

    else
```

```
    {

       document.write(i+ " is Odd Number"+ "<br>");

    }

  }

  </script>

</html>
```

**OUTPUT**



```
0 is Even Number
1 is Odd Number
2 is Even Number
3 is Odd Number
4 is Even Number
5 is Odd Number
6 is Even Number
7 is Odd Number
8 is Even Number
9 is Odd Number
10 is Even Number
11 is Odd Number
12 is Even Number
13 is Odd Number
14 is Even Number
15 is Odd Number
```
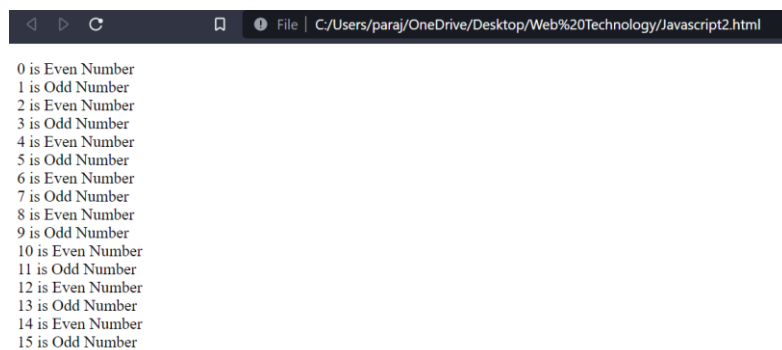
**3. Write a JS program to calculate the volume of sphere.**

Input radius value and get the volume of a sphere.

Radius

Volume

0.0000

Calculate

**SOURCE CODE**

```
<html>

<head>

  <meta charset="utf-8">

  <title></title>

</head>

<body>
```

```html
<p>Input radius value and get volume of sphere</p>

<div class="first">

<label>Enter your radius</label><br>

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

</div>

<p>Volume</p>

<div class="second">

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

</div>

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

</body>

<script>

    function callli()

    {

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

    var second=(4/3)*3.14*first*first*first;

document.getElementById("second").value=second;

}

</script>

</html>
```

**OUTPUT**

Input radius value and get volume of sphere

Enter your radius
5

Volume

523.3333333333334
Calculate
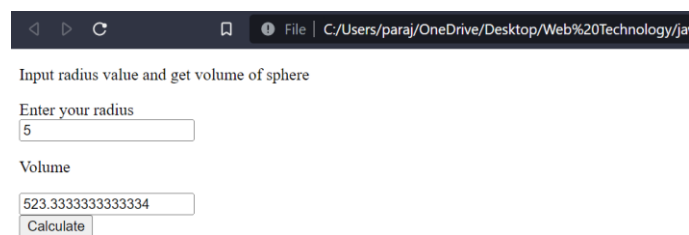
4. **Write a JavaScript program to highlight the bold words of the following paragraph, onmouse over a certain link.**

**SOURCE CODE**

```html
<html>
<head>
```

```html
    <meta charset="utf-8">
    <title></title>
</head>
<body>
<p id="highlight" onmouseover="changecolor()" onmouseleave="samestate()">We have just
    started this section for the users (beginner to intermediate) who want to work with various
    JavaScript problems and write scripts online to test their JavaScript skill.</p>
</body>
<script>
    var x = document.getElementById("highlight");
    function changecolor()
    {
       x.style.color = 'blue';
       x.style.fontWeight = 'bold';

    }
    function samestate()
    {
       x.style.color='black';
    }
</script>
</html>
```

**OUTPUT**



We have just started this section for the users (beginner to intermediate) who want to work with various JavaScript problems and write scripts online to test their JavaScript skill.
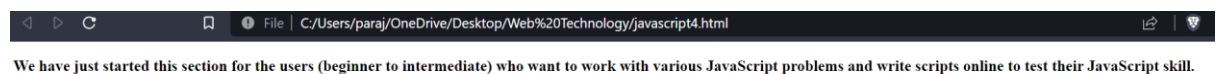
5. **Write a JavaScript function to check whether a given value is alpha numeric or not.**

   **SOURCE CODE**

```html
<html>
<head>
   <title>Check if Value is Alphanumeric</title>
</head>
<body>
   <label for="input-field">Enter a value:</label>
   <input type="text" id="input-field">
   <button onclick="checkAlphanumeric()">Check if Alphanumeric</button>
</body>
<script>
    function checkAlphanumeric() {
```

```javascript
        const inputValue = document.querySelector('#input-field').value;

        if (/^[a-zA-Z0-9]+$/.test(inputValue)) {

            alert('The value is alphanumeric');

        } else {

            alert('The value is not alphanumeric');

        }

    }

    </script>

</html>
```

**OUTPUT**
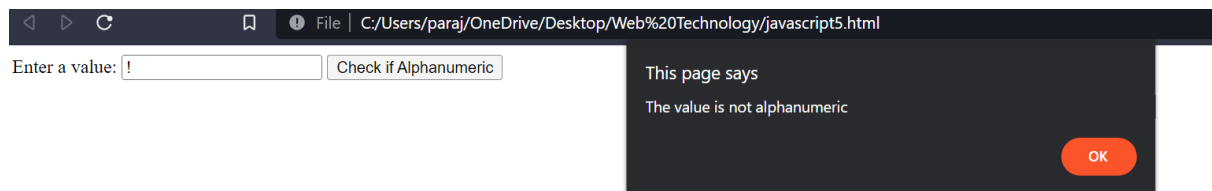


6. **Write a program to validate email and password where password should be mix ofalphabets, numbers and other characters.**

**SOURCE CODE**

```html
<html>

<head>

    <title>Email and Password Validation</title>

</head>

<body>

    <form>

        <label for="email-field">Email:</label>

        <input type="email" id="email-field" required><br><br>

        <label for="password-field">Password:</label>

        <input type="password" id="password-field" required><br><br>

        <button onclick="validateForm()">Submit</button>

    </form>
```

```
</body>

<script>

    function validateForm() {

        console.log("i am inside function")

        const emailValue = document.querySelector('#email-field').value;

        const password = document.querySelector('#password-field').value;

        const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

        const lettersRegex = /[a-zA-Z]/;

        const numbersRegex = /[0-9]/;

        const specialCharsRegex = /[!@#$%^&*()_+\-=\[\]{};':"\\|,.<>\/?]/;

        if (!emailRegex.test(emailValue)) {

            alert('Please enter a valid email address');

        }

        else
if(!lettersRegex.test(password)||(!numbersRegex.test(password))||(!specialCharsRegex.test(passwo
rd))) {


            alert("Your password should contain at least one letter, one number, and one special
character.");

        }

else {

  alert("Your  form submitted successfully");

}

}

    </script>

</html>
```

**OUTPUT**

# AJAX and XML

1. **Create a XMLHttpRequest, and retrieve data from a txt file.**

```html
<!DOCTYPE html>

<html>

<body>

<div id="demo">

<h2>The XMLHttpRequest and Retriving Data</h2>

<button type="button" onclick="loadDoc()">Send Request</button>

</div>

<script>

function loadDoc() {

  const xhttp = new XMLHttpRequest();

  xhttp.onload = function() {

    document.getElementById("demo").innerHTML =

    this.responseText;

  }

  xhttp.open("GET", "ajax_info.txt");

  xhttp.send();

}

</script>

</body>

</html>
```

**OUTPUT**

File | C:/Users/paraj/OneDrive/Desktop/Web%20Technology/Lab-5.1.html
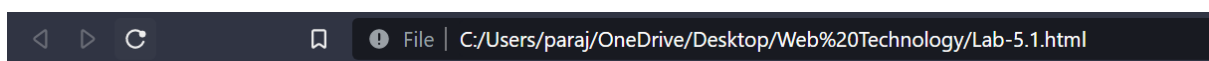
## The XMLHttpRequest Object

Change Content

# AJAX

AJAX is not a programming language.

AJAX is a technique for accessing web servers from a web page.

AJAX stands for Asynchronous JavaScript And XML.

**2. Design a form containing a field 'name' that provides suggestions by retrieving the content from PHP file.**

<!DOCTYPE html>

<html>

<body>

   <h4>Saphal Lab 5.2</h4>

<h2>Retriving Suggestions from PHP file

</h2>

<h3>Enter your name below:</h3>


<p>Suggestions: <span id="txtHint"></span></p>

<p>First name: <input type="text" id="txt1" onkeyup="showHint(this.value)"></p>


<script>

function showHint(str) {

 if (str.length == 0) {

   document.getElementById("txtHint").innerHTML = "";

   return;

 }

 const xhttp = new XMLHttpRequest();

 xhttp.onload = function() {

   document.getElementById("txtHint").innerHTML =

```
    this.responseText;

  }

  xhttp.open("GET", "gethint.php?q=" + str);

  xhttp.send();

}

</script>


</body>

</html>
```

**OUTPUT**
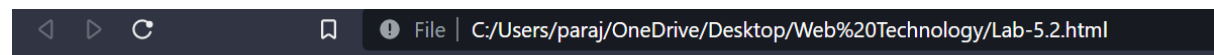


**Retriving Suggestions from PHP file**

**Enter your name below:**

Suggestions:

First name: [                    ]

3. **Create cdcatalog.xml file that stores the information about CDs. The XML file should contain the title, artist, country, company, price and year of CDs. Now display the content of that XML file using HTML table.**

```
<!DOCTYPE html>

<html>

<style>

table,th,td {

  border : 1px solid black;

  border-collapse: collapse;

}

th,td {

  padding: 5px;

}

</style>

<body>
```

```html
<button type="button" onclick="loadXMLDoc()">Get my CD collection</button>

<br><br>

<table id="demo"></table>

<script>
function loadXMLDoc() {
  const xhttp = new XMLHttpRequest();
  xhttp.onload = function() {
    const xmlDoc = xhttp.responseXML;
    const cd = xmlDoc.getElementsByTagName("CD");
    myFunction(cd)
  }
  xhttp.open("GET", "cdcatalog.xml");
  xhttp.send();
}

function myFunction(cd) {
  let table="<tr><th>Artist</th><th>Title</th></tr>";
  for (let i = 0; i < cd.length; i++) {
    table += "<tr><td>" +
    cd[i].getElementsByTagName("ARTIST")[0].childNodes[0].nodeValue +
    "</td><td>" +
    cd[i].getElementsByTagName("TITLE")[0].childNodes[0].nodeValue +
    "</td></tr>";
  }
  document.getElementById("demo").innerHTML = table;
}
</script>

</body>
</html>
```

**OUTPUT:**

[Get my CD collection]

| Artist | Title |
| --- | --- |
| Bob Dylan | Empire Burlesque |
| Bonnie Tyler | Hide your heart |
| Dolly Parton | Greatest Hits |
| Gary Moore | Still got the blues |
| Eros Ramazzotti | Eros |
| Bee Gees | One night only |
| Dr.Hook | Sylvias Mother |
| Rod Stewart | Maggie May |
| Andrea Bocelli | Romanza |
| Percy Sledge | When a man loves a woman |
| Savage Rose | Black angel |
| Many | 1999 Grammy Nominees |
| Kenny Rogers | For the good times |
| Will Smith | Big Willie style |
| Van Morrison | Tupelo Honey |
| Jorn Hoel | Soulsville |
| Cat Stevens | The very best of |
| Sam Brown | Stop |
| T'Pau | Bridge of Spies |

# PHP

1.  Write a PHP program to compute the sum of the prime numbers less than 200.

**Source Code:**

```php
<?php
function isPrime($n) {
  if ($n <= 1) {
    return false;
  }
  for ($i = 2; $i <= sqrt($n); $i++) {
    if ($n % $i == 0) {
      return false;
    }
  }
  return true;
}
$sum = 0;
for ($i = 2; $i < 200; $i++) {
  if (isPrime($i)) {
    $sum += $i;
  }
}

echo "The sum of prime numbers less than 200 is: $sum";
?>
```

**OUTPUT:**



localhost/WebLab/sum%20of%20prime%20numbers.php

The sum of prime numbers less than 200 is: 4227
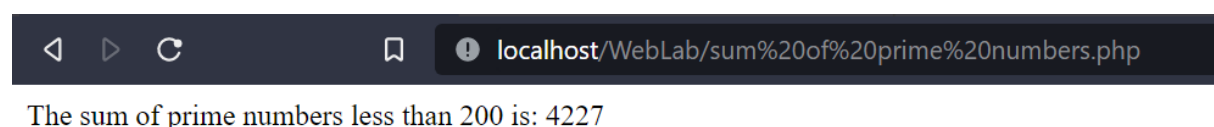
2. Write a PHP script to convert lowercase string to uppercase.

**SOURCE CODE:**

```php
<?php
 $str = "hello  HOW are You All 123$#%";
 $resStr = strtoupper($str);
 print_r($resStr);
?>
```

**OUTPUT:**

localhost/WebLab/lowercase%20to%20uppercase.php

HELLO HOW ARE YOU ALL 123$#%
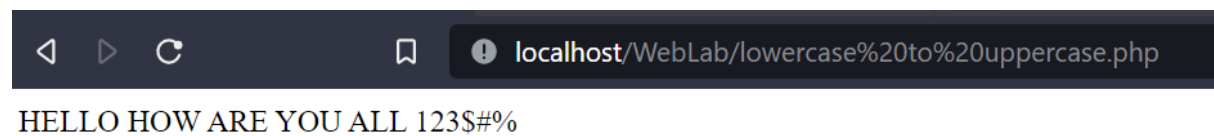
3. Write a PHP script to calculate and print the factorial of a number using a for loop.

**SOURCE CODE:**

```php
<?php
$num = 7;
$factorial = 1;
for ($i = 1; $i <= $num; $i++) {
    $factorial *= $i;
}
echo "The factorial of $num is: $factorial";
?>
```

**OUTPUT:**

localhost/WebLab/factorial.php

The factorial of 8 is: 40320
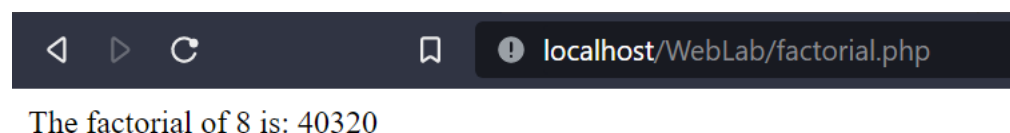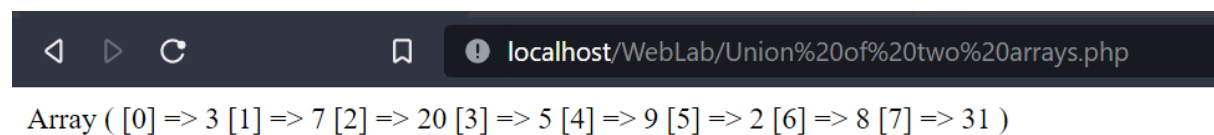
4. Write a PHP function to set union of two arrays.

**SOURCE CODE:**

```php
<?php
function array_union($x, $y)

  {

    $aunion=  array_merge(

        array_intersect($x, $y),

        array_diff($x, $y),

        array_diff($y, $x)

      );

      return $aunion;

  }
$p = array(3, 5, 7, 9,20);

$r = array(2, 3, 7, 8, 20, 31);

print_r(array_union($p, $r));

?>
```

OUTPUT:



Array ( [0] => 3 [1] => 7 [2] => 20 [3] => 5 [4] => 9 [5] => 2 [6] => 8 [7] => 31 )

# PHP and MYSQL

1. **Create Database named "SL".**

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "SL";
$conn = new mysqli($servername, $username, $password, $dbname);
 if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
 $sql = "CREATE TABLE students (
     roll_no INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
     first_name VARCHAR(30) NOT NULL,
     last_name VARCHAR(30) NOT NULL,
     gender ENUM('Male', 'Female', 'Other') NOT NULL,
     address VARCHAR(100) NOT NULL,
     contact_no VARCHAR(20) NOT NULL
   )";

if ($conn->query($sql) === TRUE) {
    echo "Table students created successfully";
} else {
    echo "Error creating table: " . $conn->error;
}
$conn->close();
?>
```

Database created successfully
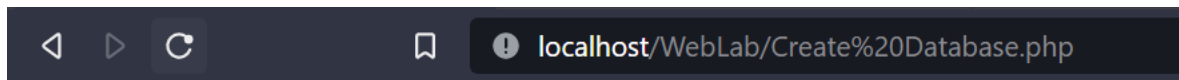
2. **Create table "students" with fields roll_no, first_name, last_name, gender, address and contact_no.**

```php
<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "SL";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {

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

}

$sql = "CREATE TABLE student (

    roll_no INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,

    first_name VARCHAR(30) NOT NULL,

    last_name VARCHAR(30) NOT NULL,

    gender ENUM('Male', 'Female', 'Other') NOT NULL,

    address VARCHAR(100) NOT NULL,

    contact_no VARCHAR(20) NOT NULL

    )";

if ($conn->query($sql) === TRUE) {

    echo "Students table created successfully";

} else {

    echo "Error creating table: " . $conn->error;

}

$conn->close();

?>
```
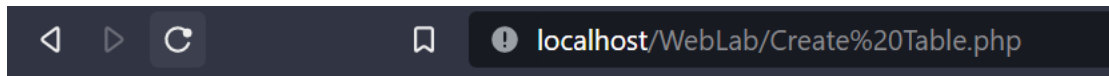
Students table created successfully

**3. Insert at least 6 data into the table 'students' by creating form .**

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "SL";
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $first_name = $_POST["first_name"];
    $last_name = $_POST["last_name"];
    $gender = $_POST["gender"];
    $address = $_POST["address"];
    $contact_no = $_POST["contact_no"];
    $sql = "INSERT INTO students (first_name, last_name, gender, address, contact_no)
        VALUES ('$first_name', '$last_name', '$gender', '$address', '$contact_no')";
    if ($conn->query($sql) === TRUE) {
        echo "New record created successfully";
    } else {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
}
$conn->close();
```

?>

<!DOCTYPE html>

<html>

<head>

    <title>Insert Student Data</title>

</head>

<body>

    <h1>Insert Student Data</h1>

    <form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">

        <label>First Name:</label>

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

        <label>Last Name:</label>
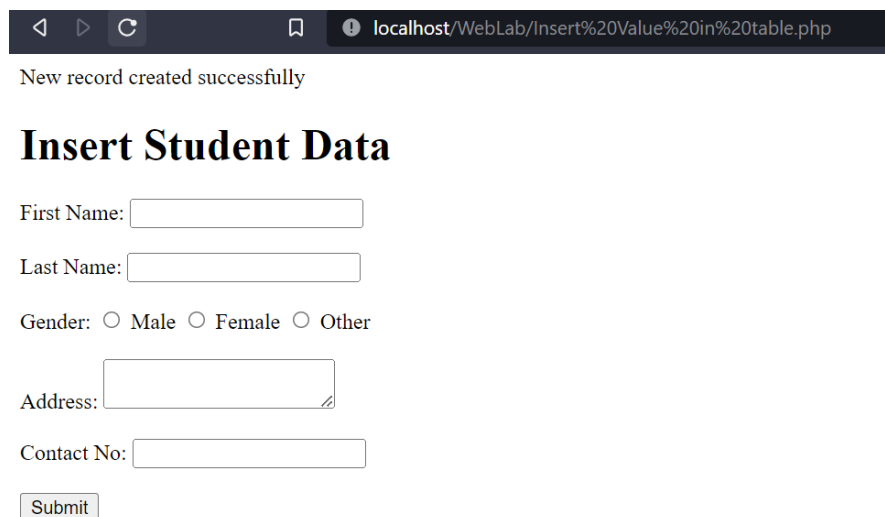
        <input type="text" name="last_name"><br><br>

        <label>Gender:</label>

        <input type="radio" name="gender" value="Male"> Male

        <input type="radio" name="gender" value="Female"> Female

        <input type="radio" name="gender" value="Other"> Other<br><br>

        <label>Address:</label>

        <textarea name="address"></textarea><br><br>

        <label>Contact No:</label>

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

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

    </form>

</body>

</html>



localhost/WebLab/Insert%20Value%20in%20table.php

New record created successfully

# Insert Student Data

First Name: 

Last Name: 

Gender: ○ Male ○ Female ○ Other

Address: 

Contact No: 

Submit

| | | | roll_no | first_name | last_name | gender | address | contact_no |
|---|---|---|---|---|---|---|---|---|
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 1 Ram | Sharma | Male | Bhaktapur | 9841262789 |
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 2 Sita | Thapa | Female | Kathmandu | 017645227 |
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 4 Geeta | Shrestha | Female | Lalitpur | 9843768739 |
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 7 Nabin | Sharma | Male | Thimi | 8733278945 |
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 9 Aman | Thapa | Male | Bhaktapur | 016686226 |
| ☐ | 🖉 Edit | 🗐 Copy | ⊖ Delete | 10 Reshika | Parajuli | Female | Bhaktapur | 9853275892 |

4. **Display all the records from table 'students'.**

```php
<?php
$servername="localhost";
$user="root";
$pass="";
$db="SL";
$conn=new mysqli($servername, $user, $pass, $db);
if($conn->connect_error)
{ die("Connection failed".$conn->connect_error);
}
echo "Connected Successfully"."<br/>";
$sql="select * from students";
$result=$conn->query($sql);
if($result->num_rows>0){
while($row=$result->fetch_assoc()){
echo "Roll No:". $row['roll_no']."-FirstName:".$row['first_name']."-LastName:".$row['last_name']."-Gender:".$row['gender']."-Address:".$row['address']."-Contact:".$row['contact_no']."<br/>";
}
}
else{
echo "0 results";
};
$conn->close()
?>
```

Connected Successfully
Roll No:1-FirstName:Ram -LastName:Sharma-Gender:Male-Address:Bhaktapur-Contact:9841262789
Roll No:2-FirstName:Sita-LastName:Thapa-Gender:Female-Address:Kathmandu-Contact:017645227
Roll No:4-FirstName:Geeta-LastName:Shrestha-Gender:Female-Address:Lalitpur-Contact:9843768739
Roll No:7-FirstName:Nabin-LastName:Sharma-Gender:Male-Address:Thimi-Contact:8733278945
Roll No:9-FirstName:Aman-LastName:Thapa-Gender:Male-Address:Bhaktapur-Contact:016686226
Roll No:10-FirstName:Reshika-LastName:Parajuli-Gender:Female-Address:Bhaktapur-Contact:9853275892

**5. Display all the records from table 'students' where gender is male.**

```php
<?php

$servername="localhost";

$user="root";

$pass="";

$db="SL";

$conn=new mysqli($servername, $user, $pass, $db);

if($conn->connect_error)

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

}

echo "Connected Successfully"."<br/>";

$sql="select * from students";

$result=$conn->query($sql);

if($result->num_rows>0){

while($row=$result->fetch_assoc()){

        if($row["gender"]=="Male")

echo "Roll No:". $row['roll_no']."-FirstName:".$row['first_name']."-LastName:".$row['last_name']."-
Gender:".$row['gender']."-Address:".$row['address']."-Contact:".$row['contact_no']."<br/>";

}

}

else{

echo "0 results";

};
```

```php
$conn->close()

?>
```

Connected Successfully
Roll No:1-FirstName:Ram -LastName:Sharma-Gender:Male-Address:Bhaktapur-Contact:9841262789
Roll No:7-FirstName:Nabin-LastName:Sharma-Gender:Male-Address:Thimi-Contact:8733278945
Roll No:9-FirstName:Aman-LastName:Thapa-Gender:Male-Address:Bhaktapur-Contact:016686226

6. **Update the contact number and address of last student in the list.**

```php
<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "SL";
$conn = new mysqli($servername, $username, $password, $dbname);

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

$sql = "UPDATE students SET contact_no='1234567890', address='Kadaghari' ";

if (mysqli_query($conn, $sql)) {
    echo "Record updated successfully";
} else {
    echo "Error updating record: " . mysqli_error($conn);
}

mysqli_close($conn);
?>
```

| ←T→ | | | roll_no | first_name | last_name | gender | address | contact_no |
|---|---|---|---|---|---|---|---|---|
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 1 | Ram | Sharma | Male | Radhe Radhe | 1234567890 |
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 2 | Sita | Thapa | Female | Radhe Radhe | 1234567890 |
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 4 | Geeta | Shrestha | Female | Radhe Radhe | 1234567890 |
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 7 | Nabin | Sharma | Male | Radhe Radhe | 1234567890 |
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 9 | Aman | Thapa | Male | Radhe Radhe | 1234567890 |
| ☐ 🖉 Edit | ⯐ Copy | ⊖ Delete | 10 | Reshika | Parajuli | Female | Radhe Radhe | 1234567890 |

## 7. Delete the second record in the list.

```php
<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "SL";
$conn = new mysqli($servername, $username, $password, $dbname);

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

$sql = "DELETE FROM students WHERE first_name = 'Ram' ";

if (mysqli_query($conn, $sql)) {
    echo "Record deleted successfully";
} else {
    echo "Error deleting record: " . mysqli_error($conn);
}

mysqli_close($conn);
    ?>
```

| | | | | roll_no | first_name | last_name | gender | address | contact_no |
|---|---|---|---|---|---|---|---|---|---|
| ☐ | Edit | Copy | Delete | 2 | Sita | Thapa | Female | Radhe Radhe | 1234567890 |
| ☐ | Edit | Copy | Delete | 4 | Geeta | Shrestha | Female | Radhe Radhe | 1234567890 |
| ☐ | Edit | Copy | Delete | 7 | Nabin | Sharma | Male | Radhe Radhe | 1234567890 |
| ☐ | Edit | Copy | Delete | 9 | Aman | Thapa | Male | Radhe Radhe | 1234567890 |
| ☐ | Edit | Copy | Delete | 10 | Reshika | Parajuli | Female | Radhe Radhe | 1234567890 |

## 8. Display the records in the table in the ascending order of names.

```php
<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "SL";
$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT * FROM students ORDER BY first_name ASC, last_name ASC";
$result = mysqli_query($conn, $sql);
```
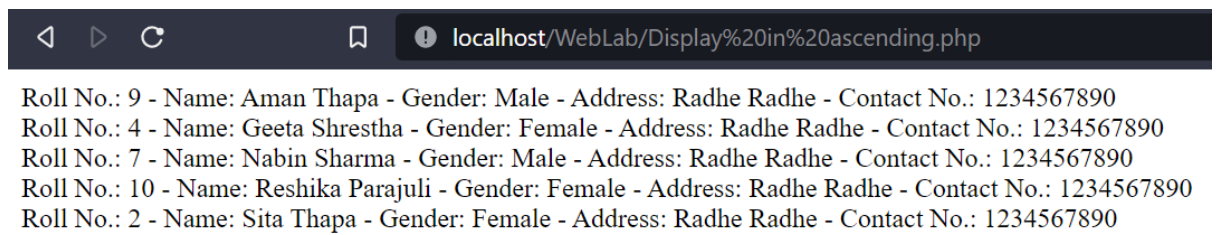
```php
if (mysqli_num_rows($result) > 0) {
    while($row = mysqli_fetch_assoc($result)) {
        echo "Roll No.: " . $row["roll_no"] . " - Name: " . $row["first_name"] . " " .
        $row["last_name"] . " - Gender: " . $row["gender"] . " - Address: " . $row["address"] . " -
        Contact No.: " . $row["contact_no"] . "<br>";
    }
} else {
    echo "No records found";
}

// Close connection
mysqli_close($conn);
    ?>
```



```
localhost/WebLab/Display%20in%20ascending.php
```

Roll No.: 9 - Name: Aman Thapa - Gender: Male - Address: Radhe Radhe - Contact No.: 1234567890
Roll No.: 4 - Name: Geeta Shrestha - Gender: Female - Address: Radhe Radhe - Contact No.: 1234567890
Roll No.: 7 - Name: Nabin Sharma - Gender: Male - Address: Radhe Radhe - Contact No.: 1234567890
Roll No.: 10 - Name: Reshika Parajuli - Gender: Female - Address: Radhe Radhe - Contact No.: 1234567890
Roll No.: 2 - Name: Sita Thapa - Gender: Female - Address: Radhe Radhe - Contact No.: 1234567890