1)HTML TAGS

```
<html>
   <body>
      <h1>This is an h1 heading</h1>
      <h2>This is an h2 heading</h2>
      <h3>This is an h3 heading</h3>
      <p>this is a paragraph</p>
      <p>this is an <em>emphasized</em> word and this is a <strong>strong</strong>
word</p>
      <p>Visit<a
href="https://justpaste.it/redirect/gth7h/http%3A%2F%2Fwww.example.com">this link</a>to
go to example.com</p>
      <img src="rain.jpg">
      <ul>
      <h3>Unordered list</h3>
      <li>first item</li>
      <li>second item</li>
      </ul>
      <ol>
      <h3>ordered list</h3>
      <li>first item</li>
      <li>second item</li>
      </ol>
      <h3>Table</h3>
      <table border="1">
      <tr>
      <th>header1</th>
      <th>header2</th>
      </tr>
      <tr>
      <td>Row1 cell1</td>
      <td>Row1 cell2</td>
      </tr>
      <tr>
      <td>Row2 cell1</td>
      <td>Row2 cell2</td>
```

```html
            </tr>
        </table>
        <h3>form</h3>
        <form>
        name:
        <input type="text"><br>
        email:
        <input type="email"><br>
        gender:
        <input type="radio"value="male"name="gender">Male
            <input type="radio"value="female"name="gender">female<br>
        Choose a car:<br>
        <select>
        <option value="volvo">volvo</option>
        <option value="saab">saab</option>
        </select>
        <input type="submit"value="submit">
        </form>
        </body>
</html>
```

----

2)table,images,external and internal links
link.html

```html
<html>
<body>
<section id="about">html page about table,images,external and internal links</section>
<nav>
<a href="">Image page</a><br>
<a href="">Table page</a>
</nav>
<p><a href="">go to about section</a></p>
</body>
</html>
```

image.html

```html
<html>
<body>
```

```
<h1>Image page</h1>
<img src="rain.jpg">
<p><a href="">back to main page</p>
</body>
</html>
```

table.html
```
<html>
<body>
<table border="1">
    <tr>
    <th>header1</th>
    <th>header2</th>
    </tr>
    <tr>
    <td>Row1 cell1</td>
    <td>Row1 cell2</td>
    </tr>
    <tr>
    <td>Row2 cell1</td>
    <td>Row2 cell2</td>
    </tr>
    </table>
    <p><a href="">back to main page</p>
</body>
</html>
```

----

3)HTML FRAMES

mixedframe.html
```
<html>
<frameset cols="50%,50%">
<frame src="floatingframe.html">
<frame  name="left"src="navigation.html">
</frameset>
<body>
</body>
</html>
```

floatingframe.html
```
<html>
```

```html
<body>
<h2>Floating Frame</h2>
<iframe src="table.html"width="200%"height="100%"></iframe></body>
</html>
```

navigation.html

```html
<html>
<body bgcolor="pink">
<nav>
<a href="target="right">image</a>
</nav>
</body>
</html>
```

table.html

```html
<html>
<body>
<table border="1">
    <tr>
    <th>header1</th>
    <th>header2</th>
    </tr>
    <tr>
    <td>Row1 cell1</td>
    <td>Row1 cell2</td>
    </tr>
    <tr>
    <td>Row2 cell1</td>
    <td>Row2 cell2</td>
    </tr>
    </table>
    <p><a href="">back to main page</p>
</body>
</html>
```

image1.html

```html
<html>
<body>
<h1>Image page</h1>
<img src="rain.jpg">
<p><a href="">back to main page</p>
```

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

----

4)INLINE,INTERNAL AND EXTERNAL STYLE

styles.html

```
<html>
<head>
    <style>
        body {
            Arial;  /* Corrected property */
            background-color: #f0f0f0;
            padding: 20px;
        }
        .container {
            width: 80%;
            background-color: white;
            padding: 20px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        .highlight {
            color: #e74c3c;
        }
    </style>
    <link rel="nofollow" href="">
</head>
<body>
    <h1 style="color: #3498db; text-align: center;">Welcome to My Webpage (inline)</h1>
    <div class="container">
        <p class="highlight">This text uses internal CSS.</p>
        <p class="external-style">This text uses external CSS.</p>
    </div>
</body>
</html>
```

external.css

```
.external-style {
    font-weight: bold;
    color: #2c3e50;
}
```

----

5)REGISTRATION FORM HTML

```html
<html>
<head>
<style>
body { Arial;  }
.container { max-width: 400px; }
fieldset { 10px; }
label, input, select { width: 100%; }
button { background: #4CAF50; color: #fff; width: 100%; padding: 10px; }
</style>
</head>
<body>
<center>
<div class="container">
<form>
<fieldset>
<legend>Personal Info</legend>
<label>Name: <input type="text" required></label>
<label>Age: <input type="number" min="1" max="100" required></label>
<label>Gender:
<select required>
<option>Male</option>
<option>Female</option>
<option>Other</option>
</select>
</label>
<label>Country:
<input list="countries" required>
<datalist id="countries">
<option value="India">
<option value="USA">
<option value="Canada">
</datalist>
</label>
</fieldset>
<fieldset>
<legend>Account Info</legend>
<label>Email: <input type="email" required></label>
<label>Password: <input type="password" required></label>
```

```html
<label>Experience:
<input type="range" min="0" max="30" oninput="expOut.value = this.value" value="0">
<output id="expOut">0</output> years
</label>
</fieldset>
<button type="submit">Register</button>
</form>
</div>
</body>
</html>
```

----

6)STRING MATH OBJECT

```html
<!DOCTYPE html>
<html>
<head>
</head>
<body>
 <h1>JavaScript String and Math Functions</h1>
 <h2>String Functions</h2>
 <p>1. String Length: The length of "Hello World" is <span id="len"></span></p>
 <p>2. toUpperCase: "hello" in uppercase is <span id="upper"></span></p>
 <p>3. includes: Does "Hello World" include "World"? <span id="inc"></span></p>
 <p>4. charAt: The character at index 4 in "Hello" is <span id="char"></span></p>
 <p>5. slice: Slicing "Hello World" from index 0 to 5 gives <span id="slice"></span></p>
 <h2>Math Functions</h2>
 <p>1. Math.round: The result of Math.round(4.6) is <span id="round"></span></p>
<p>2. Math.random: A random number between 0 and 1: <span id="rand"></span></p>
 <p>3. Math.sqrt: The square root of 25 is <span id="sqrt"></span></p>
<p>4. Math.max: The maximum number of (10, 20, 5, 40) is <span id="max"></span></p>
 <p>5. Math.min: The minimum number of (10, 20, 5, 40) is <span id="min"></span></p>
 <script>

    document.getElementById('len').innerText = "Hello World".length;
    document.getElementById('upper').innerText = "hello".toUpperCase();
    document.getElementById('inc').innerText = "Hello World".includes("World");
    document.getElementById('char').innerText = "Hello".charAt(4);
    document.getElementById('slice').innerText = "Hello World".slice(0, 5);

    document.getElementById('round').innerText = Math.round(4.6);
```

```
        document.getElementById('rand').innerText = Math.random();
        document.getElementById('sqrt').innerText = Math.sqrt(25);
        document.getElementById('max').innerText = Math.max(10, 20, 5, 40);
        document.getElementById('min').innerText = Math.min(10, 20, 5, 40);
    </script>
 </body>
</html>
```

----

7)REGISTRATION FORM JS

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
    <h2>Registration Form</h2>
    <form onsubmit="return validateForm()">
First Name:<br>
        <input type="text" id="firstname"><br><br>
 Last Name:<br>
        <input type="text" id="lastname"><br><br>
 Username:<br>
        <input type="text" id="username"><br><br>
Password:<br>
        <input type="password" id="password"><br><br>
 Confirm Password:<br>
        <input type="password" id="confirmPassword"><br><br>
 Gender:<br>
        <input type="radio" id="male" name="gender" value="Male"> Male<br>
        <input type="radio" id="female" name="gender" value="Female"> Female<br><br>
 Mobile:<br>
        <input type="text" id="mobile"><br><br>
Address:<br>
        <textarea id="address"></textarea><br><br>
 Email:<br>
        <input type="email" id="email"><br><br>
 <button type="submit">Register</button>
    </form>
 <script>
        function validateForm() {
```

```javascript
const firstname = document.getElementById("firstname").value.trim();
const lastname = document.getElementById("lastname").value.trim();
const username = document.getElementById("username").value.trim();
const password = document.getElementById("password").value.trim();
const confirmPassword = document.getElementById("confirmPassword").value.trim();
const maleRadio = document.getElementById("male").checked;
const femaleRadio = document.getElementById("female").checked;
const mobile = document.getElementById("mobile").value.trim();
const address = document.getElementById("address").value.trim();
const email = document.getElementById("email").value.trim();
if (

    !firstname ||
    !lastname ||
    !username ||
    !password ||
    !confirmPassword ||
    (!maleRadio && !femaleRadio) ||
    !mobile ||
    !address ||
    !email
) {
    alert("All fields are required!");
    return false;
}

if (password.length < 8) {
    alert("Password must be at least 8 characters!");
    return false;
}

if (password !== confirmPassword) {
    alert("Passwords do not match!");
    return false;
}

if (mobile.length !== 10 || isNaN(mobile)) {
    alert("Enter a valid 10-digit mobile number!");
    return false;
}
```

```
        if (!email.includes("@") || !email.includes(".")) {
            alert("Enter a valid email!");
            return false;
        }
 alert("Registration Successful!");
        return true;
    }
   </script>
</body>
</html>
```

----

8)BGCOLOR JS

```
<!DOCTYPE html>
<head>
<style>
    button {
 padding: 15px 30px;
        font-size: 18px;
        cursor: pointer;
    }
   </style>
</head>
<body>
   <button onclick="changeColor()">Change Background Color</button>
<script>
    function changeColor() {
        let color = '#' + Math.random().toString(16).slice(2, 8);
        document.body.style.backgroundColor = color;
    }
   </script>
</body>
</html>
```

----

9)MOUSEOVER

```
<html>
<head>
<style>
 #hoverContent {
```

```html
cursor: pointer;
width: 300px;
 }
</style>
</head>
<body>
   <div id="hoverContent" onmouseover="showContent()" onmouseout="hideContent()">
      <h2>Hover over this text</h2>
      <div id="newContent">
         <img src="coffee.jpg" alt="New Image" style="width:100%;">
         <p>This is the new content shown on hover!</p>
      </div>
   </div>
<script>
   function showContent() {
       document.getElementById('newContent').style.display = 'block';
    }

       function hideContent() {
       document.getElementById('newContent').style.display = 'none';
    }
   </script>
</body>
</html>
```

----

10)STUDENT PRINTR( )

```php
<?php
 $students = ["Anjali", "Rahul", "Priya", "Amit", "Sneha", "Vikas", "Riya"];
 echo "<h3>Original Array:</h3>";
echo "<pre>";
print_r($students);
echo "</pre>";
 asort($students);
echo "<h3>Array in Ascending Order (asort):</h3>";
echo "<pre>";
print_r($students);
echo "</pre>";
 arsort($students);
echo "<h3>Array in Descending Order (arsort):</h3>";
```

```php
echo "<pre>";
print_r($students);
echo "</pre>";
?>
```

----

11) cricket

```html
<html>
<head>
<style>
    table {
   width: 50%;
}
    th, td {
        border: 1px solid #ddd;
   text-align: center;
    }
    th {
        background-color: #4CAF50;
        color: white;
    }
   </style>
</head>
<body>
 <table>
    <tr>
     <th>Player Name</th>
    </tr>
    <?php
    $players = ["Virat Kohli", "Rohit Sharma", "MS Dhoni", "Sachin Tendulkar", "Jasprit
Bumrah", "Ravindra Jadeja", "KL Rahul"];
    foreach ($players as $player ) {
   echo "<tr>";
   echo "<td>" . $player. "</td>";
   echo "</tr>";
    }
    ?>
   </table>
</body>
</html>
```

----

12)CONNECT TO DATABASE

```sql
CREATE TABLE student (
    rollno INT PRIMARY KEY,  -- Unique roll number for each student
    name VARCHAR(100),       -- Student's name, up to 100 characters
    phonenumber VARCHAR(15), -- Phone number, typically 10-15 characters (including
country code)
    email VARCHAR(100),      -- Email address
    address TEXT             -- Student's address, which can be longer
);

INSERT INTO student (rollno, name, phonenumber, email, address)
VALUES
(1, 'John Doe', '123-456-7890', 'johndoe@example.com', '123 Main St, Springfield, IL'),
(2, 'Jane Smith', '987-654-3210', 'janesmith@example.com', '456 Oak St, Springfield, IL'),
(3, 'Alex Johnson', '555-123-4567', 'alexj@example.com', '789 Pine St, Springfield, IL'),
(4, 'Emily Davis', '333-222-1111', 'emilyd@example.com', '321 Maple St, Springfield, IL');
```

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "college";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
} else {
    echo '<script>alert("Connected successfully")</script>';
}
// SQL query to fetch student data
$sql = "SELECT * FROM student";
$result = $conn->query($sql);
// Check if there are rows to display
if ($result->num_rows > 0) {
    echo '<center><h2>Student Details</h2></center>';
    echo '<table border="1" cellpadding="10" cellspacing="0" style="border-collapse: collapse;
width: 80%; 20px auto; text-align: left;">';
```

```php
    echo '<thead><tr><th>Roll No</th><th>Name</th><th>Mobile No</th><th>Email</th>
<th>Address</th></tr></thead>';
    echo '<tbody>';

    // Fetch and display each row from the result set
    while($row = $result->fetch_assoc()) {
        echo '<tr>';
        echo '<td>' . $row['rollno'] . '</td>';  // Make sure the column names match the actual
column names in your DB (case-sensitive)
        echo '<td>' . $row['name'] . '</td>';
        echo '<td>' . $row['phonenumber'] . '</td>';
        echo '<td>' . $row['email'] . '</td>';
        echo '<td>' . $row['address'] . '</td>';
        echo '</tr>';
    }

    echo '</tbody>';
    echo '</table>';
} else {
    echo '<p>No student data available.</p>';
}
// Close the connection
$conn->close();
?>
```
----

13)FIBONACCI
```php
<?php

function fibonacci($terms) {
    if ($terms < 1) {
        return "Please enter a positive integer.";
    }

    $fibonacciSeries = [];
    $a = 0;
    $b = 1;

    for ($i = 0; $i < $terms; $i++) {
        $fibonacciSeries[] = $a;
```

```php
        $next = $a + $b;
        $a = $b;
        $b = $next;
    }

    return $fibonacciSeries;
}


$terms = 20;


$fibonacciSeries = fibonacci($terms);


echo "Fibonacci series up to $terms terms:<br>";
echo implode(", ", $fibonacciSeries);
?>
```
----
14)FACTORIAL
```php
<?php

function factorial($number) {
    if ($number < 0) {
        return "Factorial is not defined for negative numbers.";
    }
    $factorial = 1;
    for ($i = 1; $i <= $number; $i++) {
        $factorial *= $i;
    }
    return $factorial;
}
 $number = 3;
 echo "The factorial of $number is: " . factorial($number);
?>
```
----
15)REG FORM PHP
```html
 <html >
<head>
```

```html
</head>
<body>
    <h2>Registration Form</h2>
    <form action="process.php" method="POST">
        <label for="username">Username:</label>
        <input type="text" name="username" required><br><br>
 <label for="email">Email:</label>
        <input type="email" name="email" required><br><br>
 <label for="password">Password:</label>
        <input type="password" name="password" required><br><br>
 <label for="confirm_password">Confirm Password:</label>
        <input type="password" name="confirm_password" required><br><br>
 <button type="submit">Register</button>
  </form>
</body>
</html>
```

process.php

```php
<?php
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
$username = trim($_POST['username']);
  $email = trim($_POST['email']);
  $password = trim($_POST['password']);
  $confirm_password = trim($_POST['confirm_password']);
$errors = [];
 if (empty($username)) {
     $errors[] = "Username is required.";
   } elseif (strlen($username) < 5) {
     $errors[] = "Username must be at least 5 characters long.";
   }
 if (empty($email)) {
     $errors[] = "Email is required.";
   } elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
     $errors[] = "Invalid email format.";
   }
 if (empty($password)) {
     $errors[] = "Password is required.";
   } elseif (strlen($password) < 8) {
     $errors[] = "Password must be at least 8 characters long.";
   }
```

```php
    if ($password !== $confirm_password) {
        $errors[] = "Passwords do not match.";
    }
  if (!empty($errors)) {
      echo "<h3>Errors:</h3>";
      echo "<ul>";
      foreach ($errors as $error) {
          echo "<li>" . ($error) . "</li>";
      }
      echo "</ul>";
    } else {

      echo "<h3>Registration Successful!</h3>";
      echo "Welcome, " . ($username) . "!";
    }
}
?>
```

----

16)book database

```html
<!DOCTYPE html>
<html>
<head>
    <title>Book Information System</title>
</head>
<body>
    <h1>Book Information System</h1>

    <!-- Form to Store Book Information -->
    <form action="" method="post">
        <label>Accession Number:</label><br>
        <input type="number" name="accession_number" required><br><br>

        <label>Title:</label><br>
        <input type="text" name="title" required><br><br>

        <label>Authors:</label><br>
        <input type="text" name="authors" required><br><br>

        <label>Edition:</label><br>
```

```html
        <input type="text" name="edition" required><br><br>

        <label>Publisher:</label><br>
        <input type="text" name="publisher" required><br><br>

        <input type="submit" name="store" value="Store Book Information">
    </form>

    <hr>

    <!-- Form to Search Book -->
    <form action="" method="post">
        <label>Title:</label><br>
        <input type="text" name="search_title" required><br><br>
        <input type="submit" name="search" value="Search Book">
    </form>
</body>
</html>
```

```php
<?php
// Database configuration
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "library";

// Establish connection
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create table if it doesn't exist
$conn->query("
    CREATE TABLE IF NOT EXISTS book_info (
        accession_number INT PRIMARY KEY,
        title VARCHAR(255),
        authors VARCHAR(255),
        edition VARCHAR(50),
```

```php
        publisher VARCHAR(100)
    )
");

// Handle form submissions
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    if (isset($_POST['store'])) {
        // Store book information
        $accession_number = $_POST['accession_number'];
        $title = $_POST['title'];
        $authors = $_POST['authors'];
        $edition = $_POST['edition'];
        $publisher = $_POST['publisher'];

        $sql = "INSERT INTO book_info (accession_number, title, authors, edition, publisher)
            VALUES ('$accession_number', '$title', '$authors', '$edition', '$publisher')";

        if ($conn->query($sql)) {
            echo "<script>alert('Book information stored successfully!');</script>";
        } else {
            echo "<script>alert('Error storing book information!');</script>";
        }
    } elseif (isset($_POST['search'])) {
        // Search book by title
        $search_title = $_POST['search_title'];
        $sql = "SELECT * FROM book_info WHERE title LIKE '%$search_title%'";
        $result = $conn->query($sql);

        if ($result->num_rows > 0) {
            echo "<h2>Search Results:</h2>";
            echo "<table border='1'>";
            echo "<tr><th>Accession Number</th><th>Title</th><th>Authors</th><th>Edition</th><th>Publisher</th></tr>";

            while ($row = $result->fetch_assoc()) {
                echo "<tr>";
                echo "<td>" . $row['accession_number'] . "</td>";
                echo "<td>" . $row['title'] . "</td>";
                echo "<td>" . $row['authors'] . "</td>";
```

```php
        echo "<td>" . $row['edition'] . "</td>";
        echo "<td>" . $row['publisher'] . "</td>";
        echo "</tr>";
      }

      echo "</table>";
    } else {
      echo "No books found!";
    }
  }
}

// Close connection
$conn->close();
?>
```

```html
<html>
<head>
  <title>Book Information System</title>
</head>
<body>
  <h1>Book Information System</h1>
  <form action="" method="post">
    <label for="accession_number">Accession Number:</label><br>
    <input type="number" id="accession_number" name="accession_number" required><br>
<br>
    <label for="title">Title:</label><br>
    <input type="text" id="title" name="title" required><br><br>
    <label for="authors">Authors:</label><br>
    <input type="text" id="authors" name="authors" required><br><br>
    <label for="edition">Edition:</label><br>
    <input type="text" id="edition" name="edition" required><br><br>
    <label for="publisher">Publisher:</label><br>
    <input type="text" id="publisher" name="publisher" required><br><br>
    <input type="submit" name="store" value="Store Book Information"><br><br>
  </form>
  <hr>
  <form action="" method="post">
    <label for="title">Title:</label><br>
```

```html
            <input type="text" id="title" name="title" required><br><br>
            <input type="submit" name="search" value="Search Book">
        </form>
    </body>
</html>
```

```php
<?php
// Configuration
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "library";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create table if not exists
$sql = "CREATE TABLE IF NOT EXISTS book_info (
    accession_number INT PRIMARY KEY,
    title VARCHAR(255) NOT NULL,
    authors VARCHAR(255) NOT NULL,
    edition VARCHAR(50) NOT NULL,
    publisher VARCHAR(100) NOT NULL
)";
$conn->query($sql);

// Handle form submission{
    if (isset($_POST['store'])) {
        // Store book information
        $accession_number = $_POST['accession_number'];
        $title = $_POST['title'];
        $authors = $_POST['authors'];
        $edition = $_POST['edition'];
        $publisher = $_POST['publisher'];
```

```php
    $sql = "INSERT INTO book_info (accession_number, title, authors, edition, publisher)
VALUES (?, ?, ?, ?, ?)";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("issss", $accession_number, $title, $authors, $edition, $publisher);
    if ($stmt->execute()) {
        echo "<script>alert('Book information stored successfully!');</script>";
    } else {
        echo "<script>alert('Error storing book information!');</script>";
    }
} elseif (isset($_POST['search'])) {
    // Search for book
    $title = $_POST['title'];

    $sql = "SELECT * FROM book_info WHERE title LIKE ?";
    $stmt = $conn->prepare($sql);
    $stmt->bind_param("s", $title);
    $stmt->execute();
    $result = $stmt->get_result();

    if ($result->num_rows > 0) {
        echo "<h2>Search Results:</h2>";
        echo "<table border='1'>";
        echo "<tr><th>Accession Number</th><th>Title</th><th>Authors</th><th>Edition</th>
<th>Publisher</th></tr>";
        while ($row = $result->fetch_assoc()) {
            echo "<tr>";
            echo "<td>" . $row['accession_number'] . "</td>";
            echo "<td>" . $row['title'] . "</td>";
            echo "<td>" . $row['authors'] . "</td>";
            echo "<td>" . $row['edition'] . "</td>";
            echo "<td>" . $row['publisher'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
    } else {
        echo "No results found!";
    }
}
```

?>