NAAN MUDHALVAN – FUNDAMENTALS OF WEB DEVELOPMENT
HTML, JAVASCRIPT, CSS

STEPS TO CREATE AND EXECUTE A HTML FILE

Step 1: Create the HTML File

☑ **1. Open a Text Editor**

- **Windows:** Use **Notepad**

☑ **2. Write Your HTML Code**

☑ **3. Save the File**

- Click **File → Save As**
- Name the file something like **index.html**
- Click **Save**

Step 2: Execute the HTML File

☑ **1. Locate the File**

- Go to the folder where you saved the index.html file.

☑ **2. Open in a Browser**

- **Double-click** the file, and it will open in your default web browser (like Chrome, Firefox, Safari, etc.)

1. Create a simple HTML document for a personal profile page with the following:
   A heading with your name.
   A paragraph describing yourself.
   A ordered list of your technical skills.
   A footer with your contact email.

PROGRAM

```html
<html>
<head>
  <title>My Profile</title>
</head>
<body>
  <h1>Mahesh Kumar </h1>
  <p> I am a web developer who loves creating websites and learning new technologies. </p>

 <ol>
    <li>HTML</li>
    <li>CSS</li>
    <li>JavaScript</li>
  </ol>

  <footer>
    <p> Contact: mahesh5864@gmail.com </p>
  </footer>
</body>
</html>
```

OUTPUT :

Mahesh Kumar

I am a web developer who loves creating websites and learning new technologies.

1. HTML
2. CSS
3. JavaScript

Contact: mahesh5864@gmail.com

2. Create an HTML table with 3 columns: Student Name, Subject, and Marks. Add data for 3 students.

PROGRAM

```html
<html>
<head>
  <title>Student Marks</title>
</head>
<body>
  <h1>Student Marks Table</h1>
  <table border="1">
    <tr>
      <th>Student Name</th>
      <th>Subject</th>
      <th>Marks</th>
    </tr>
    <tr>
      <td>Alice</td>
      <td>Math</td>
      <td>85</td>
    </tr>
    <tr>
      <td>Bob</td>
      <td>Science</td>
      <td>90</td>
    </tr>
    <tr>
      <td>Charlie</td>
      <td>History</td>
      <td>78</td>
    </tr>
  </table>
</body>
</html>
```

OUTPUT :

Student Marks Table

Student Name	Subject	Marks
Alice	Math	85
Bob	Science	90
Charlie	History	78

3. Write JavaScript to validate that all fields in a form (Name, Email) are filled in before submission. If any field is empty, show an alert.

PROGRAM

```html
<html>
<head>
  <title>Simple Form Validation</title>
  <script>
    function checkForm() {
      var name = document.getElementById("name").value;
      var email = document.getElementById("email").value;

      if (name === "" || email === "") {
        alert("Please fill in all fields!");
        return false;
      }
      return true;
    }
  </script>
</head>
<body>
  <h1>Form</h1>
  <form onsubmit="return checkForm()">
    Name: <input type="text" id="name"><br>
    Email: <input type="text" id="email"><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

OUTPUT :

Form

Name: [   ]
Email: [   ]
Submit

4. Write JavaScript to add a new list item to an ordered list when a button is clicked.

PROGRAM

```html
<html>
<head>
  <title>Add Item from User</title>
  <script>
    function addListItem() {
        var ol = document.getElementById("myList"); // Get the ordered list
        var newItem = document.createElement("li"); // Create a new list item

        // Prompt the user for input
        var itemText = prompt("Enter the new item:");

        // Check if the user entered something
        if (itemText) {
           newItem.textContent = itemText; // Set the user's input as the list item text
           ol.appendChild(newItem); // Add the new item to the list
        } else {
           alert("No item entered!"); // Alert if the user leaves it blank
        }
     }
  </script>
</head>
<body>
  <h1>Ordered List</h1>
  <ol id="myList">
    <li>Apple</li>
    <li>Orange</li>
  </ol>
  <button onclick="addListItem()">Add Item</button>
</body>
</html>
```

OUTPUT :

Ordered List

1. Apple
2. Orange

Add Item

Ordered List

1. Apple
2. Orange
3. Mango
4. Watermelon

Add Item