

DAY -8

NAME: NANCY M
DATE : 17-07-2025

1.Simple Calculator

```
<!DOCTYPE html>

<html>

<head>

    <title>Simple Calculator</title>

</head>

<body>

    <div id="cal_Form">

        <h2>Simple Calculator</h2>

        <form name="calcForm" onsubmit="return calculate();">

            <label for="input1">Input1:</label>

            <input type="number" id="input1" name="input1" required><br><br>

            <label for="input2">Input2:</label>

            <input type="number" id="input2" name="input2" required><br><br>

            <label for="operation">Select Operation:</label>

            <select id="operation" name="operation" required>

                <option value="">Select..</option>

                <option value="add">ADD</option>
```

```
<option value="sub">SUBTRACT</option>
```

```
<option value="mul">MULTIPLY</option>
```

```
<option value="div">DIVIDE</option>
```

```
</select><br><br>
```

```
<input type="image" src="C:\Training\day-8_js\img\submit.jpg" alt="Submit" width="80" height="30">
```

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

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

```
</form>
```

```
</div>
```

```
<script>
```

```
function calculate() {
```

```
    var num1 = parseFloat(document.getElementById("input1").value);
```

```
    var num2 = parseFloat(document.getElementById("input2").value);
```

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

```
    var result = "";
```

```
    if (operation === "add") {
```

```
        result = num1 + num2;
```

```
    } else if (operation === "sub") {
```

```
        result = num1 - num2;
```

```
    } else if (operation === "mul") {
```

```
        result = num1 * num2;
    } else if (operation === "div") {
        if (num2 === 0) {
            result = "Cannot divide by zero";
        } else {
            result = num1 / num2;
        }
    } else {
        result = "Please select a valid operation";
    }
    document.getElementById("result").innerText = "Result: " + result;
    return false;
}

</script>

</body>

</html>

<style>
body {
    margin: 0;
    padding: 0;
    height: 100vh;
    display: flex;
    justify-content: center;
    align-items: center;
```

```
}
```

```
#cal_Form {
```

```
    border: 2px solid black;
```

```
    padding: 20px 30px;
```

```
    display: inline-block;
```

```
}
```

```
<style>
```

```
body {
```

```
    margin: 0;
```

```
    padding: 0;
```

```
    height: 100vh;
```

```
    display: flex;
```

```
    justify-content: center;
```

```
    align-items: center;
```

```
}
```

```
#cal_Form {
```

```
    border: 2px solid black;
```

```
    padding: 20px 30px;
```

```
    display: inline-block;
```

```
}
```

```
</style>
```

Simple Calculator


Input1:

Input2:

Select Operation:

Select.. ▾

Submit



2. Player Application Form Validation

In the player application form created, do the following validation using JavaScript.

1. All fields are mandatory
2. Matches played, runs scored, wickets and age should be numbers
3. Player name should contain alphabets only
4. Email should be in the correct format

If all validation rules are satisfied, success page should be displayed.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Player Details</title>
```

```
<script>
```

```
function validateForm() {
```

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

```

var dob = document.getElementById("dob").value.trim();

var age = document.getElementById("age").value.trim();

var email = document.getElementById("email").value.trim();

var matches = document.getElementById("matches").value.trim();

var runs = document.getElementById("runs").value.trim();

var wickets = document.getElementById("wickets").value.trim();

// Patterns

var namePattern = /^[A-Za-z\s]+$/;

var emailPattern = /^[a-zA-Z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$/i;

var numberPattern = /^[0-9]+$/;

if (name === "" || dob === "" || age === "" || email === "" || matches === "" || runs === "" ||
wickets === "") {

    alert("All fields are mandatory!");

    return false;

}

if (!name.match(namePattern)) {

    alert("Name should contain alphabets only!");

    return false;

}

if (!email.match(emailPattern)) {

    alert("Please enter a valid email address!");

    return false;

}

if (!age.match(numberPattern)) {

```

```
        alert("Age should be a number!");

        return false;
    }

    if (!matches.match(numberPattern)) {

        alert("Matches Played should be a number!");

        return false;
    }

    if (!runs.match(numberPattern)) {

        alert("Runs Scored should be a number!");

        return false;
    }

    if (!wickets.match(numberPattern)) {

        alert("Wickets should be a number!");

        return false;
    }

    // If everything is valid, redirect to success page
    window.location.href = "success.html";

    return false; // Prevent actual form submission
}

</script>

</head>

<body>

<table class="whole" >
```

```
<tr>

<td>

<form onsubmit="return validateForm();"

<table class="box">

  <h1 class="player-head">Player Details</h1>

<tr>

<td><label>Name</label></td>

<td><input type="text" id="name" placeholder="Enter your name"></td>

</tr>

<tr>

<td>DOB</td>

<td><input type="text" id="dob" placeholder="DD/MM/YYYY"></td>

</tr>

<tr>

<td>Age</td>

<td><input type="text" id="age" placeholder="Enter your age"></td>

</tr>

<tr>

<td>Email Id</td>

<td><input type="text" id="email" placeholder="abc12@xyz.com"></td>

</tr>

<tr>

<td>Country</td>
```



```
<td>

<select>

<option>India</option>

<option>Australia</option>

<option>England</option>

<option>South Africa</option>

<option>New Zealand</option>

</select>

</td>

</tr>

<tr>

<td>Skill</td>

<td>

<input type="checkbox">Batting

<input type="checkbox">Bowling

</td>

</tr>

<tr>

<td>Bat Style</td>

<td>

<input type="radio" name="batstyle">Right Handed

<input type="radio" name="batstyle">Left Handed

</td>
```

</tr>

<tr>

<td>Bowl Style</td>

<td>

<input type="radio" name="bowlstyle">Right Handed

<input type="radio" name="bowlstyle">Left Handed

</td>

</tr>

<tr>

<td>Matches</td>

<td><input type="text" id="matches" placeholder="Matches Played"></td>

</tr>

<tr>

<td>Runs</td>

<td><input type="text" id="runs" placeholder="Total runs scored"></td>

</tr>

<tr>

<td>Wickets</td>

<td><input type="text" id="wickets" placeholder="Wickets"></td>

</tr>

<tr>

<td>Achievements</td>

<td><textarea placeholder="Your Achievements in Cricket"></textarea></td>

```
</tr>

</table>

<tr >

<td class="dark-blue" colspan="2">

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

  <input type="reset" value="Reset">

</td>

</tr>

</form>

</td>

</tr>

</table>

</body>

</html>

<style>

.box{

  background-color: #86c7dc;

  padding: 10px;

  margin-bottom: 8px;

  border: 1px black solid;

}

.dark-blue{

  background-color: #23a2cc;
```

```
text-align: center;

padding: 10px;

border: 1px black solid;

}
```

```
.player-head{

background-color: #86c7dc;

border: 1px black solid;

text-align: center;

padding: 5px;

color: white;

margin: 5px auto;

}
```

```
.whole{

border: 1px rgb(135, 132, 132) solid;

padding: 10px;

}
```

```
body {

margin: 0;

padding: 0;

height: 100vh;

display: flex;
```

justify-content: center;

align-items: center;

}

</style>

Player Details

Name	<input type="text" value="Enter your name"/>
DOB	<input type="text" value="DD/MM/YYYY"/>
Age	<input type="text" value="Enter your age"/>
Email Id	<input type="text" value="abc12@xyz.com"/>
Country	<input type="text" value="India"/>
Skill	<input type="checkbox"/> Batting <input type="checkbox"/> Bowling
Bat Style	<input type="radio"/> Right Handed <input type="radio"/> Left Handed
Bowl Style	<input type="radio"/> Right Handed <input type="radio"/> Left Handed
Matches	<input type="text" value="Matches Played"/>
Runs	<input type="text" value="Total runs scored"/>
Wickets	<input type="text" value="Wickets"/>
Achievements	<input type="text" value="Your Achievements in Cricket"/>

3. Create a html page with radio buttons to select colors. Selected color should be applied as the background colour of the page.

<!DOCTYPE html>

```
<html>

<head>

  <title>Color Selector</title>

  <script>

    function changeColor(color) {

      document.body.style.backgroundColor = color;

    }

  </script>

</head>

<body>

<h2>Select a Background Color</h2>

<form>

  <input type="radio" name="bgColor" onclick="changeColor('lightblue')"> Light Blue<br><br>

  <input type="radio" name="bgColor" onclick="changeColor('lightgreen')"> Light
Green<br><br>

  <input type="radio" name="bgColor" onclick="changeColor('lightyellow')"> Light
Yellow<br><br>

  <input type="radio" name="bgColor" onclick="changeColor('lavender')"> Lavender<br><br>

  <input type="radio" name="bgColor" onclick="changeColor('white')"> White<br><br>

</form>

</body>

</html>
```

Select a Background Color

- ☐ Light Blue
- ☐ Light Green
- ☐ Light Yellow
- ☐ Lavender
- ☐ White

Select a Background Color

- ☒ Light Blue
- ☐ Light Green
- ☐ Light Yellow
- ☐ Lavender
- ☐ White

Select a Background Color

- ☐ Light Blue
- ☒ Light Green
- ☐ Light Yellow
- ☐ Lavender
- ☐ White

Select a Background Color

- ☐ Light Blue
- ☐ Light Green
- ☐ Light Yellow
- ☒ Lavender
- ☐ White

Select a Background Color

- ☐ Light Blue
- ☐ Light Green
- ☒ Light Yellow
- ☐ Lavender
- ☐ White

Select a Background Color

- ☐ Light Blue
- ☐ Light Green
- ☐ Light Yellow
- ☐ Lavender
- ☒ White

