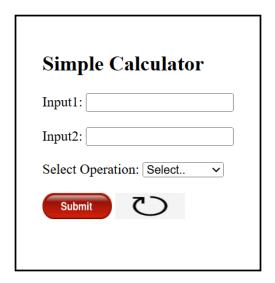
```
DATE: 17-07-2025
1. Simple Calculator
<!DOCTYPE html>
<html>
<head>
 <title>Simple Calculator</title>
</head>
<body>
 <div id="cal_Form">
 <h2>Simple Calculator</h2>
 <form name="calcForm" onsubmit="return calculate();">
    <label for="input1">Input1:</label>
    <input type="number" id="input1" 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>
```

NAME: NANCY M

```
<option value="sub">SUBTRACT</option>
      <option value="mul">MULTIPLY</option>
      <option value="div">DIVIDE</option>
    </select><br>>
    <input type="image" src="C:\Training\day-8_js\img\sunmit.jpg" alt="Submit" width="80"
height="30">
    <img src="C:\Training\day-8_js\img\reset.png" alt="Reset" width="80" height="30"</pre>
onclick="document.calcForm.reset();"><br><br>
    </form>
 </div>
 <script>
   function calculate() {
      var num1 = parseFloat(document.getElementById("input1").value);
      var num2 = parseFloat(document.getElementByld("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>
```



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>
```

```
<form onsubmit="return validateForm();">
<h1 class="player-head">Player Details</h1>
>
<label>Name</label>
="text" id="name" placeholder="Enter your name">
 DOB 
<input type="text" id="dob" placeholder="DD/MM/YYYY">
<td>Age
<input type="text" id="age" placeholder="Enter your age">
Email Id
<input type="text" id="email" placeholder="abc12@xyz.com">
Country
```

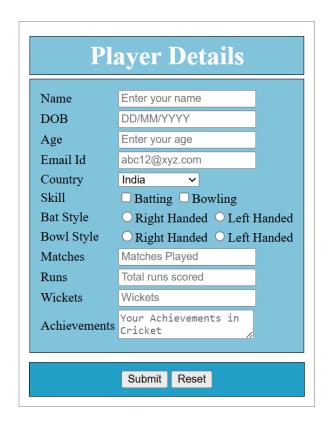
```
>
<select>
<option>India</option>
<option>Australia
<option>England</option>
<option>South Africa</option>
<option>New Zealand
</select>
>
Skill
>
<input type="checkbox">Batting
<input type="checkbox">Bowling
>
Bat Style
<input type="radio" name="batstyle">Right Handed
<input type="radio" name="batstyle">Left Handed
```

```
Bowl Style
<input type="radio" name="bowlstyle">Right Handed
<input type="radio" name="bowlstyle">Left Handed
Matches
<input type="text" id="matches" placeholder="Matches Played">
Runs
<input type="text" id="runs" placeholder="Total runs scored">
Wickets
<input type="text" id="wickets" placeholder="Wickets">
Achievements
<textarea placeholder="Your Achievements in Cricket"></textarea>
```

```
>
<input type="submit" value="Submit">
<input type="reset" value="Reset">
</form>
</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>
```



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>
 <input type="radio" name="bgColor" onclick="changeColor('white')"> White<br><br>
</form>
</body>
</html>
```

Select a Background Color

O Light Blue
O Light Green
O Light Yellow
O Lavender
O White
Select a Background Color
Select a Background Color • Light Blue
Light Blue
Light BlueLight Green
Light BlueLight GreenLight Yellow
Light BlueLight GreenLight YellowLavender
Light BlueLight GreenLight YellowLavender
Light BlueLight GreenLight YellowLavender

Select a Background Color
O Light Blue
Light Green
Light Yellow
Lavender
• White

Select a Background Color
O Light Blue
O Light Green
O Light Yellow
Lavender
○ White

Select a Background Color
O Light Blue
O Light Green
Light Yellow
O Lavender
O White

Select a Background Color

- O Light Blue
- O Light Green
- O Light Yellow
- O Lavender
- White