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Task:

1.Simple Calculator

Solution:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Simple Calculator</title>
```

```
<style>
```

```
body {
```

```
    font-family: Arial, sans-serif;
```

```
    background-color: #f2f2f2;
```

```
    padding: 40px;
```

```
}
```

```
.calculator {
```

```
    width: 300px;
```

```
    margin: auto;
```

```
    background-color: #fff;
```

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

```
border-radius: 8px;

box-shadow: 0 0 10px rgba(0,0,0,0.1);

}
```

```
h2 {

    text-align: center;

    color: #333;

}
```

```
label {

    display: block;

    margin-top: 15px;

}
```

```
input[type="number"],

select {

    width: 100%;

    padding: 8px;

    margin-top: 5px;

    border: 1px solid #ccc;

    border-radius: 4px;

}
```

```
.btns {  
  
  margin-top: 20px;  
  
  display: flex;  
  
  justify-content: space-between;  
  
}
```

```
button {  
  
  padding: 8px 15px;  
  
  border: none;  
  
  border-radius: 4px;  
  
  cursor: pointer;  
  
}
```

```
#result {  
  
  margin-top: 20px;  
  
  font-weight: bold;  
  
  color: #222;  
  
  padding: 10px;  
  
  background-color: #e6f7ff;  
  
  border-left: 4px solid #2196F3;  
  
  display: none;
```

```
}

</style>

</head>

<body>

<div class="calculator">

  <h2>Simple Calculator</h2>

  <form id="calculatorForm" onsubmit="return calculate();">

    <label for="input1">Input 1:</label>

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

    <label for="input2">Input 2:</label>

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

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

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

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

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

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

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

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

    </select>

  
```

```
<div class="btns">

    <button type="submit" class="submit-btn"></button>

    <button type="button" class="reset-btn" onclick="resetForm()"></button>

</div>

</form>


<div id="result"></div>

</div>


<script>

function calculate() {

    const input1 = parseFloat(document.getElementById('input1').value);

    const input2 = parseFloat(document.getElementById('input2').value);

    const operation = document.getElementById('operation').value;

    const resultDiv = document.getElementById('result');

    let result = '';

    if (!operation) {

        resultDiv.innerHTML = "Please select an operation.";
```

```
        resultDiv.style.display = "block";

        return false;
    }

    switch (operation) {

        case "ADD":

            result = input1 + input2;

            break;

        case "SUBTRACT":

            result = input1 - input2;

            break;

        case "MULTIPLY":

            result = input1 * input2;

            break;

        case "DIVIDE":

            result = input2 !== 0 ? (input1 / input2).toFixed(2) : "Cannot
divide by zero";

            break;

    }

    resultDiv.innerHTML = "Result: " + result;

    resultDiv.style.display = "block";
```

```
        return false;

    }

    function resetForm() {

        document.getElementById("calculatorForm").reset();

        document.getElementById("result").style.display = "none";

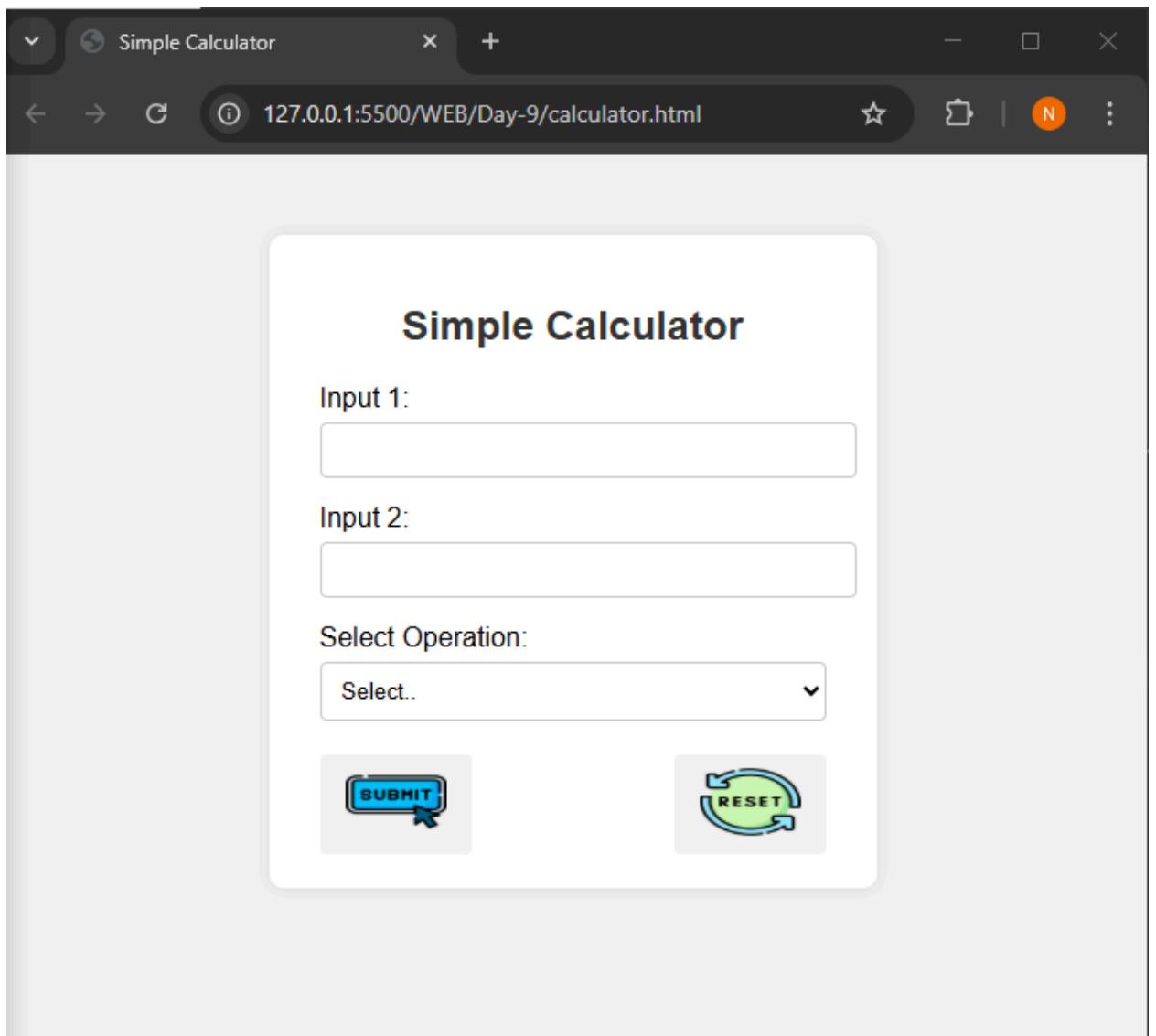
    }

</script>

</body>

</html>
```

Output:



The screenshot shows a web browser window with a dark theme. The title bar says "Simple Calculator". The address bar shows the URL "127.0.0.1:5500/WEB/Day-9/calculator.html". The main content area displays a "Simple Calculator" form. The form has two input fields labeled "Input 1:" and "Input 2:". Below these is a "Select Operation:" dropdown menu with "Select.." as the current selection. At the bottom of the form are two buttons: a blue "SUBMIT" button and a green "RESET" button with a circular arrow icon.

Simple Calculator

Input 1:

Input 2:

Select Operation:

Select..

SUBMIT

RESET

Output 2:

The screenshot shows a web browser window with a single tab titled "Simple Calculator". The address bar displays the URL "127.0.0.1:5500/WEB/Day-9/calculator.html". The page content features a "Simple Calculator" form. It includes two input fields: "Input 1:" containing the number "7" and "Input 2:" containing the number "3". Below these is a "Select Operation:" dropdown menu currently showing "ADD". There are two buttons: a blue "SUBMIT" button and a green "RESET" button. At the bottom, a light blue box displays "Result: 10".

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

Solution:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Player Details</title>
  <style>
    body {
      background-color: #f2f2f2;
      font-family: Arial, sans-serif;
    }
    table.outer {
      width: 60%;
      margin: 30px auto;
      border: 1px solid black;
      border-collapse: collapse;
    }
    .header {
      background-color: #2e74b5;
      color: white;
      font-size: 24px;
      font-weight: bold;
      padding: 12px;
      text-align: center;
    }
    .form-area {
      background-color: #99ddf0;
      padding: 20px;
    }
    table.inner {
      width: 100%;
    }
    td {
      padding: 8px;
      vertical-align: top;
    }
    label {
      font-style: italic;
    }
  </style>

```

```

    .required {
        color: red;
    }
    input[type="text"],
    input[type="email"],
    select,
    textarea {
        width: 95%;
        padding: 6px;
        box-sizing: border-box;
    }
    .footer {
        background-color: #2e74b5;
        text-align: center;
        padding: 12px;
    }
    input[type="submit"],
    input[type="reset"] {
        padding: 8px 16px;
        font-size: 14px;
        margin: 5px;
        cursor: pointer;
    }
</style>
</head>
<body>

<table class="outer">
    <tr>
        <td class="header">Player Details</td>
    </tr>
    <tr>
        <td class="form-area">
            <form>
                <table class="inner">
                    <tr>
                        <td><label>Name<span class="required">*</span></label></td>
                        <td><input type="text" placeholder="Enter your name"
required></td>
                    </tr>

```

```

        <tr>
            <td><label>DOB<span class="required">*</span></label></td>
            <td><input type="text" placeholder="DD/MM/YYYY"
required></td>
        </tr>
        <tr>
            <td><label>Age<span class="required">*</span></label></td>
            <td><input type="text" placeholder="Enter your age"
required></td>
        </tr>
        <tr>
            <td><label>Email Id<span
class="required">*</span></label></td>
            <td><input type="email" placeholder="abc12@xyz.com"
required></td>
        </tr>
        <tr>
            <td><label>Country<span
class="required">*</span></label></td>
            <td>
                <select required>
                    <option>India</option>
                    <option>Australia</option>
                    <option>England</option>
                    <option>South Africa</option>
                    <option>Other</option>
                </select>
            </td>
        </tr>
        <tr>
            <td><label>Skill<span class="required">*</span></label></td>
            <td>
                <input type="checkbox"> Batting
                <input type="checkbox"> Bowling
            </td>
        </tr>
        <tr>
            <td><label>Bat Style</label></td>
            <td>
                <input type="radio" name="bat_style"> Right Handed

```

```

        <input type="radio" name="bat_style"> Left Handed
    </td>
</tr>
<tr>
    <td><label>Bowl Style</label></td>
    <td>
        <input type="radio" name="bowl_style"> Right Handed
        <input type="radio" name="bowl_style"> Left Handed
    </td>
</tr>
<tr>
    <td><label>Matches<span
class="required">*</span></label></td>
    <td><input type="text" placeholder="Matches Played"
required></td>
</tr>
<tr>
    <td><label>Runs<span class="required">*</span></label></td>
    <td><input type="text" placeholder="Total runs scored"
required></td>
</tr>
<tr>
    <td><label>Wickets<span
class="required">*</span></label></td>
    <td><input type="text" placeholder="Wickets" required></td>
</tr>
<tr>
    <td><label>Achievements</label></td>
    <td><textarea rows="4" placeholder="Your Achievements in
Cricket"></textarea></td>
</tr>
</table>
</td>
</tr>
<tr>
    <td class="footer">
        <input type="submit" value="Submit">
        <input type="reset" value="Reset">
    </form>
</td>

```

```
</tr>
</table>

</body>
</html>
```

Output:

The screenshot displays a web browser window with the title 'Player Details'. The address bar shows the URL '127.0.0.1:5500/WEB/Day-9/player.html'. The main content area features a form titled 'Player Details' with a light blue background and a blue header and footer. The form contains the following fields and options:

- Name***: Text input field with placeholder 'Enter your name'.
- DOB***: Text input field with placeholder 'DD/MM/YYYY'.
- Age***: Text input field with placeholder 'Enter your age'.
- Email Id***: Text input field with placeholder 'abc12@xyz.com'.
- Country***: Dropdown menu with 'India' selected.
- Skill***: Radio buttons for 'Batting' and 'Bowling'.
- Bat Style**: Radio buttons for 'Right Handed' and 'Left Handed'.
- Bowl Style**: Radio buttons for 'Right Handed' and 'Left Handed'.
- Matches***: Text input field with placeholder 'Matches Played'.
- Runs***: Text input field with placeholder 'Total runs scored'.
- Wickets***: Text input field with placeholder 'Wickets'.
- Achievements**: Text area with placeholder 'Your Achievements in Cricket'.

At the bottom of the form, there are two buttons: 'Submit' and 'Reset'.

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

Solution:

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bacground Color</title>
</head>

<body>

  <input type="radio" name="color" id="red" value="red">Red
  <br>
  <input type="radio" name="color" id="blue" value="blue">Blue
  <br>
  <input type="radio" name="color" id="green" value="green">Green

  <script>
    var color = document.getElementsByName("color");

    for (let i = 0; i < color.length; i++) {
      color[i].addEventListener("change", () => {
        if (color[i].checked) {
          document.body.style.backgroundColor = color[i].value;
        }
      });
    }
  </script>
</body>

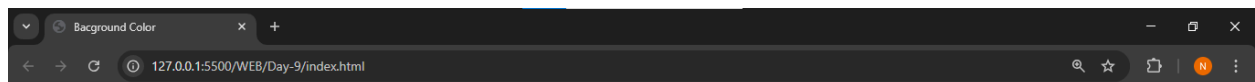
</html>
```

Output:



Select Color To Change The Background Color

- ☐ Red
- ☐ Blue
- ☐ Green



Select Color To Change The Background Color

- ☒ Red
- ☐ Blue
- ☐ Green



Select Color To Change The Background Color

- ☐ Red
- ☒ Blue
- ☐ Green



Select Color To Change The Background Color

- ☐ Red
- ☐ Blue
- ☒ Green