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Date: 17-07-2025

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;
}
```

```css
.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;
```

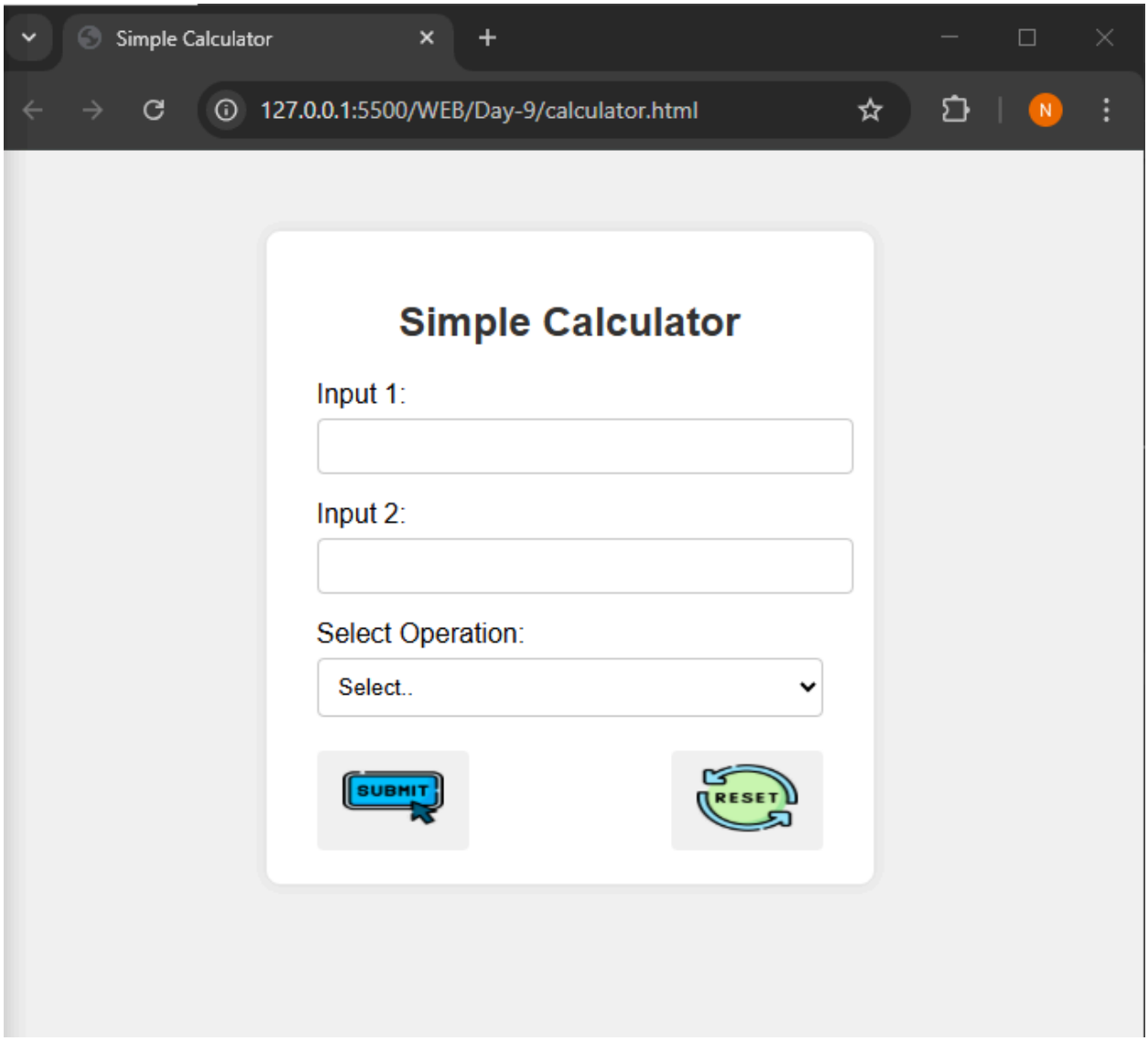
```
    }
  </style>
</head>
<body>

  <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"><img src="submit.png"
alt="" width="60px" height="40px"></button>

        <button type="button" class="reset-btn" onclick="resetForm()"><img
src="reset.png" alt="" width="60px" height="40px"></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.";
```

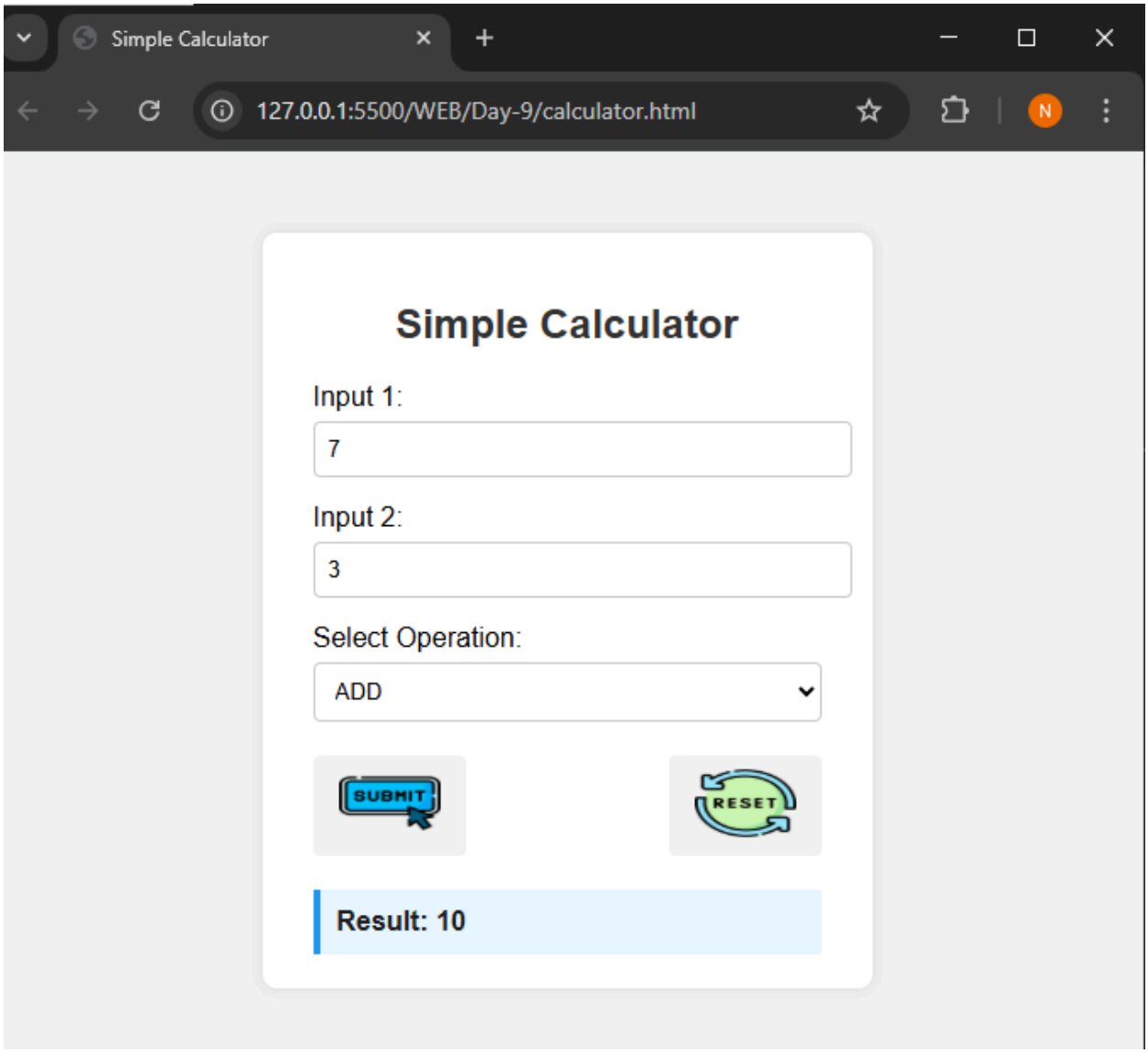
```
        resultDiv.style.display = "block";
        return false;
      }

      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:


Simple Calculator
127.0.0.1:5500/WEB/Day-9/calculator.html
Simple Calculator
Input 1:
Input 2:
Select Operation:
Select..
SUBMIT
RESET

Output 2:



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;
    }
```

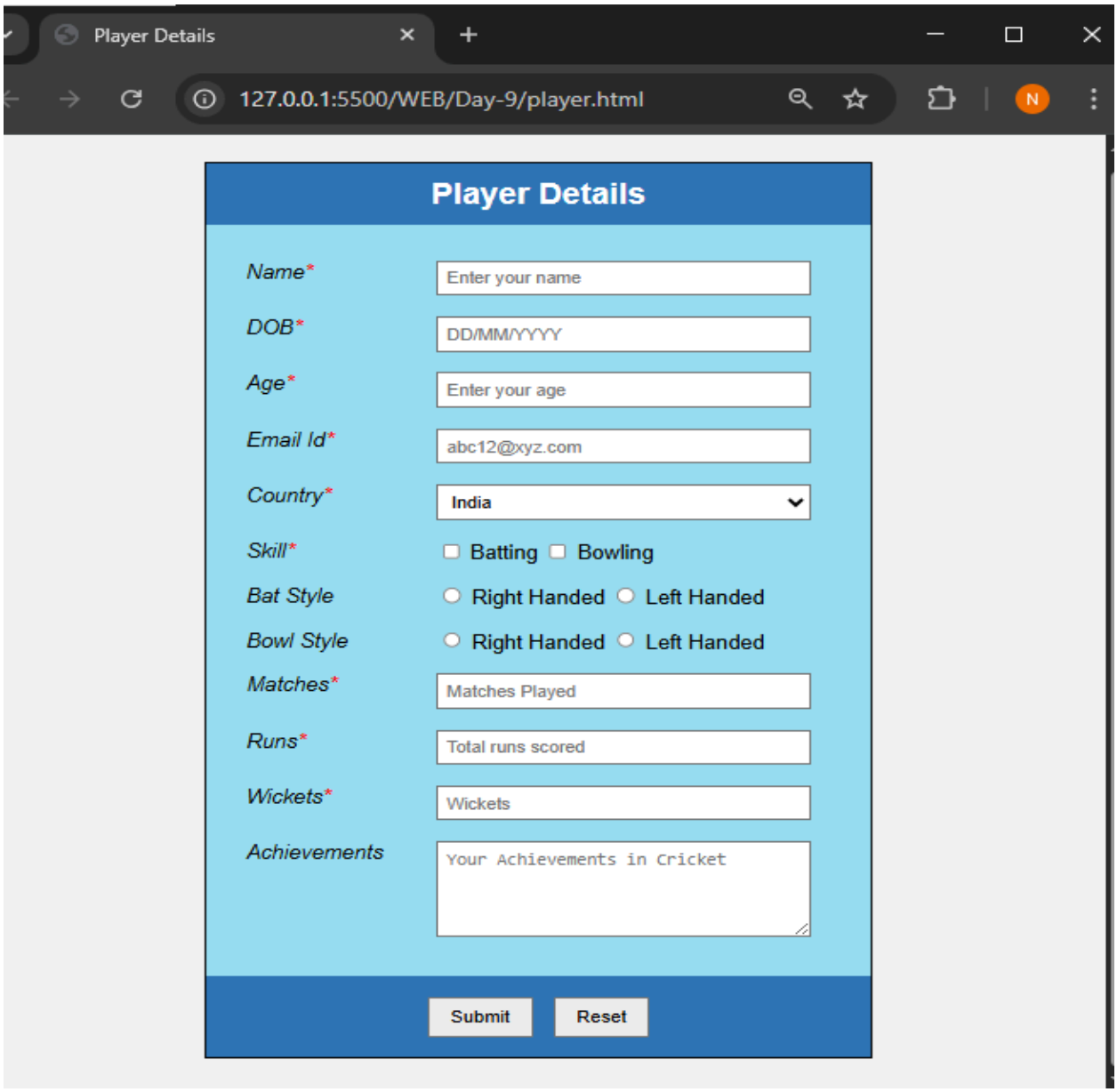
```
    .required {
      color: red;
    }
    input[type="text"],
    input[type="email"],
    select,
    textarea {
      width: 95%;
      padding: 6px;
      box-sizing: border-box;
    }
    .footer {
      background-color: #2e74b5;
      text-align: center;
      padding: 12px;
    }
    input[type="submit"],
    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:

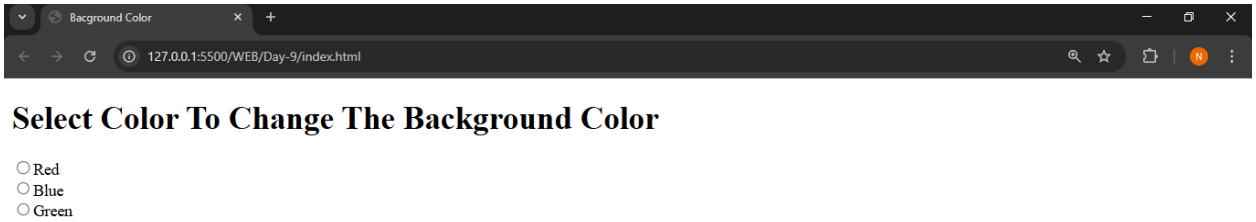


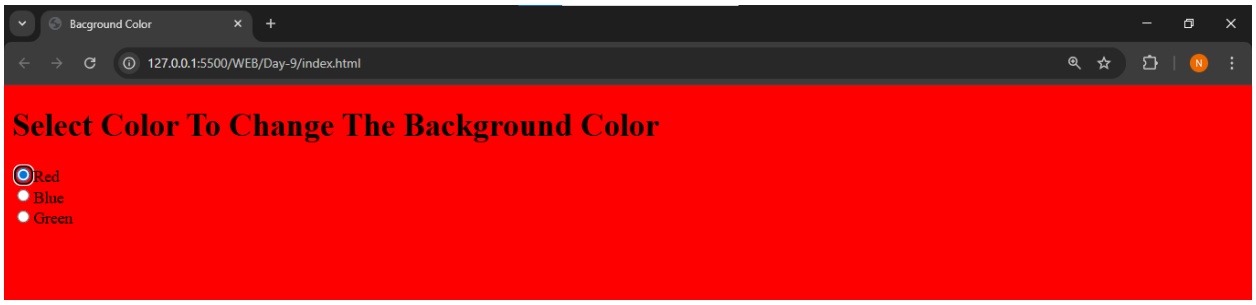
3. Create a html page with radio buttons to select colors. Selected color should be applied as the background colour of the page.

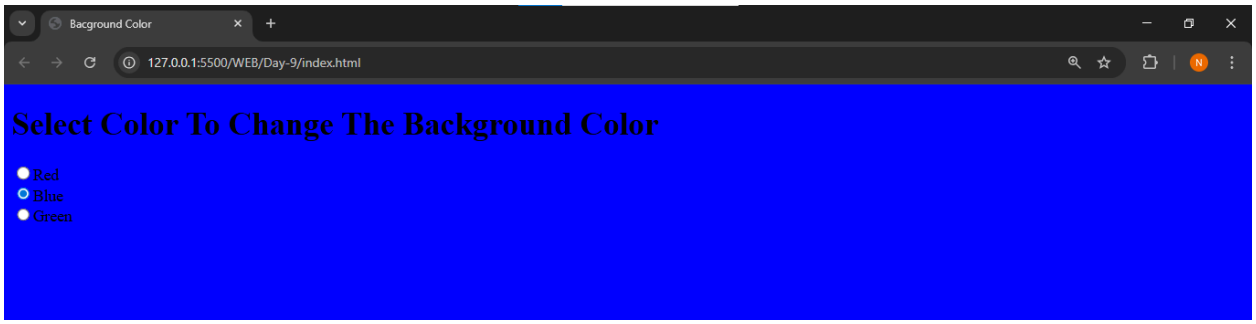
Solution:

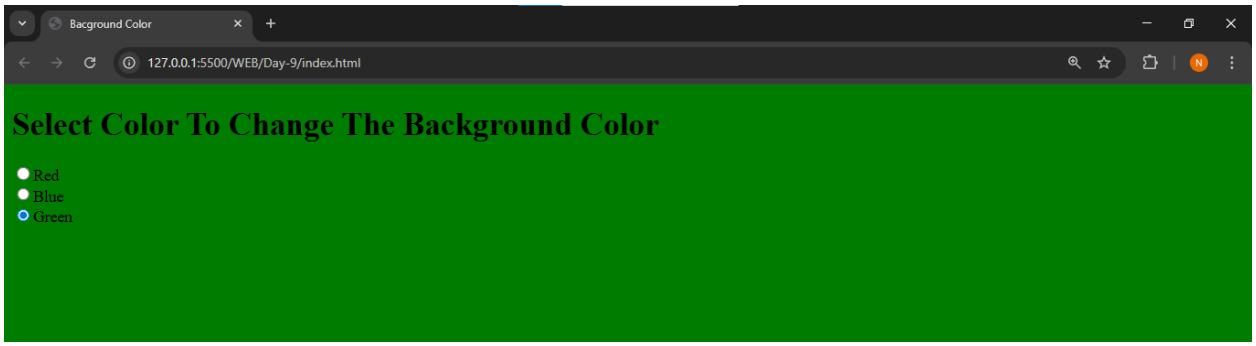
```
<!DOCTYPE html>
<html lang="en">

<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:


Bacground Color
127.0.0.1:5500/WEB/Day-9/index.html
Select Color To Change The Background Color
Red
Blue
Green


Bacground Color
127.0.0.1:5500/WEB/Day-9/index.html
Select Color To Change The Background Color
Red
Blue
Green


Bacground Color
127.0.0.1:5500/WEB/Day-9/index.html
Select Color To Change The Background Color
Red
Blue
Green


Bacground Color
127.0.0.1:5500/WEB/Day-9/index.html
Select Color To Change The Background Color
Red
Blue
Green