

DAY-9-TASK

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1.Simple Calculator:

Code:

index.html

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <title>Stylish Calculator</title>
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
  <style>
```

```
    body {
```

```
      margin: 0;
```

```
      font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

```
      background: linear-gradient(135deg, #89f7fe 0%, #333 100%);
```

```
      display: flex;
```

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

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

```
      height: 100vh;
```

```
    }
```

```
    .calculator {
```

```
      background: #ffffff;
```

```
border-radius: 15px;

box-shadow: 0 10px 25px rgba(0, 0, 0, 0.1);

padding: 30px 40px;

width: 100%;

max-width: 400px;

}
```

```
h2 {

  text-align: center;

  color: #0077b6;

  margin-bottom: 25px;

}
```

```
.form-group {

  margin-bottom: 18px;

}
```

```
label {

  display: block;

  margin-bottom: 6px;

  font-weight: 600;

  color: #333;

}
```

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

```
select {  
  width: 100%;  
  padding: 10px;  
  border-radius: 8px;  
  border: 1px solid #ccc;  
  font-size: 16px;  
}
```

```
select {  
  background: #f8f8f8;  
}
```

```
.buttons {  
  display: flex;  
  justify-content: space-around;  
  margin-top: 25px;  
}
```

```
.buttons img {  
  width: 50px;  
  cursor: pointer;  
  transition: transform 0.2s ease;  
}
```

```
.buttons img:hover {
```

```
    transform: scale(1.1);  
}
```

```
.result {  
    margin-top: 25px;  
    text-align: center;  
    font-size: 20px;  
    color: #009688;  
    font-weight: bold;  
}
```

```
@media (max-width: 480px) {  
    .calculator {  
        padding: 25px;  
    }  
}
```

```
.buttons img {  
    width: 40px;  
}  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="calculator">
```

<h2>Simple Calculator</h2>

<form id="calcForm">

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

</div>

<div class="form-group">

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

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

<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>

<div class="buttons">

```
    
```

```
    
```

```
</div>
```

```
</form>
```

```
<div id="result" class="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");
```

```
    if (isNaN(input1) || isNaN(input2)) {
```

```
        resultDiv.textContent = "Please enter valid numbers.";
```

```
        return;
```

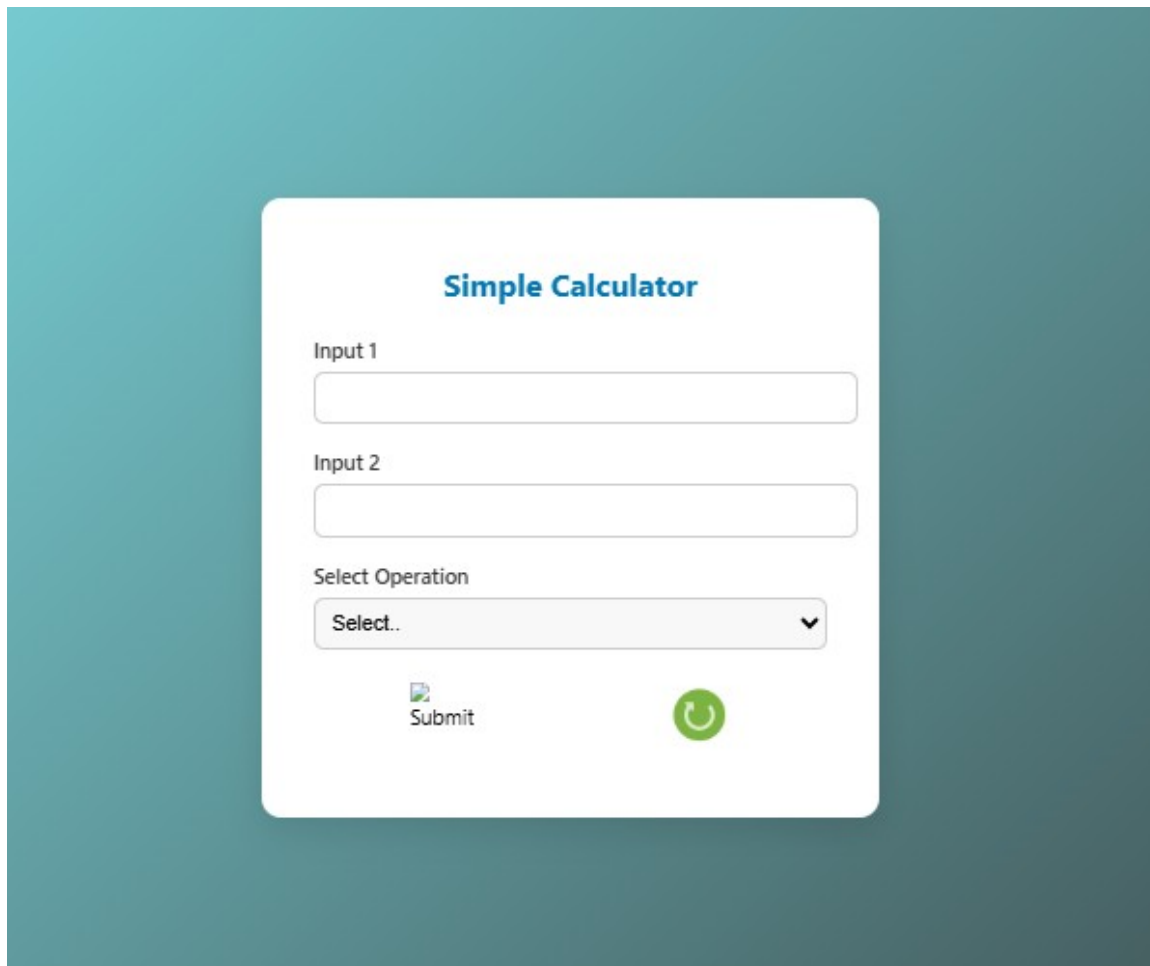
```
    }
```

```
    let result;
```

```
switch (operation) {  
    case "add":  
        result = input1 + input2;  
        break;  
    case "subtract":  
        result = input1 - input2;  
        break;  
    case "multiply":  
        result = input1 * input2;  
        break;  
    case "divide":  
        if (input2 === 0) {  
            resultDiv.textContent = "Cannot divide by zero.";  
            return;  
        }  
        result = input1 / input2;  
        break;  
    default:  
        resultDiv.textContent = "Please select a valid operation.";  
        return;  
}  
  
resultDiv.textContent = `Result: ${result}`;  
}
```

```
function resetForm() {  
    document.getElementById("calcForm").reset();  
    document.getElementById("result").textContent = "";  
}  
</script>  
</body>  
  
</html>
```

Output:





Simple Calculator

Input 1

Input 2

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.

Code:

inde.html

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
  <title>Player Application Form</title>
```

```
  <style>
```

```
    body {
```

```
      font-family: Verdana, Geneva, Tahoma, sans-serif;
```

```
      background: white;
```

```
      margin: 0;
```

```
      padding: 50px;
```

```
      font-size: large;
```

```
    }
```

```
.container {  
    width: 500px;  
    margin: auto;  
    background: #add8e6;  
    border: 2px solid #4682b4;  
    padding: 20px;  
}
```

```
h2 {  
    background: #4682b4;  
    color: white;  
    margin: -20px -20px 20px;  
    padding: 10px;  
    text-align: center;  
}
```

```
form div {  
    margin-bottom: 12px;  
}
```

```
label {  
    display: inline-block;  
    width: 120px;  
    font-style: italic;  
}
```

```
input[type="text"],  
input[type="email"],  
select,  
textarea {  
    width: 280px;  
    padding: 4px;  
    border: 1px solid #ccc;  
    border-radius: 2px;  
}
```

```
.checkbox-group,  
.radio-group {  
    display: inline-block;  
    width: 280px;  
}
```

```
.checkbox-group label,  
.radio-group label {  
    font-style: normal;  
    margin-right: 10px;  
}
```

```
.buttons {  
    text-align: center;
```

```
margin-top: 20px;  
}
```

```
input[type="submit"],  
input[type="reset"] {  
padding: 6px 12px;  
margin: 0 10px;  
}
```

```
.error {  
color: red;  
font-size: 0.9em;  
margin-left: 124px;  
}
```

```
.success {  
text-align: center;  
color: green;  
font-weight: bold;  
margin-top: 20px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
  <h2>Player Details</h2>
```

```
  <form id="playerForm" novalidate>
```

```
    <div>
```

```
      <label for="name">Name*</label>
```

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

```
      <div class="error" id="errName"></div>
```

```
    </div>
```

```
    <div>
```

```
      <label for="dob">DOB*</label>
```

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

```
      <div class="error" id="errDob"></div>
```

```
    </div>
```

```
    <div>
```

```
      <label for="age">Age*</label>
```

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

```
      <div class="error" id="errAge"></div>
```

```
    </div>
```

```
    <div>
```

```
      <label for="email">Email Id*</label>
```

```
      <input type="email" id="email" name="email" placeholder="abc12@xyz.com" />
```

```
<div class="error" id="errEmail"></div>
</div>
```

```
<div>
  <label for="country">Country*</label>
  <select id="country" name="country">
    <option value="">Select country</option>
    <option>India</option>
    <option>USA</option>
    <option>UK</option>
    <option>Australia</option>
  </select>
  <div class="error" id="errCountry"></div>
</div>
```

```
<div>
  <label>Skill*</label>
  <div class="checkbox-group">
    <label><input type="checkbox" name="skill" value="Batting"> Batting</label>
    <label><input type="checkbox" name="skill" value="Bowling"> Bowling</label>
  </div>
  <div class="error" id="errSkill"></div>
</div>
```

```
<div>
```

<label>Bat Style</label>

<div class="radio-group">

<label><input type="radio" name="batStyle" value="Right"> Right Handed</label>

<label><input type="radio" name="batStyle" value="Left"> Left Handed</label>

</div>

</div>

<div>

<label>Bowl Style</label>

<div class="radio-group">

<label><input type="radio" name="bowlStyle" value="Right"> Right Handed</label>

<label><input type="radio" name="bowlStyle" value="Left"> Left Handed</label>

</div>

</div>

<div>

<label for="matches">Matches*</label>

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

<div class="error" id="errMatches"></div>

</div>

<div>

<label for="runs">Runs*</label>

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

<div class="error" id="errRuns"></div>

</div>

<div>

<label for="wickets">Wickets*</label>

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

<div class="error" id="errWickets"></div>

</div>

<div>

<label for="achievements">Achievements</label>

<textarea id="achievements" name="achievements" rows="3"

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

</div>

<div class="buttons">

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

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

</div>

</form>

<div id="successMsg" class="success" style="display:none;">

Form submitted successfully!

</div>

</div>


```
<script>
```

```
document.getElementById('playerForm').addEventListener('submit', function (e) {
```

```
    e.preventDefault();
```

```
    clearErrors();
```

```
    const data = {
```

```
        name: this.name.value.trim(),
```

```
        dob: this.dob.value.trim(),
```

```
        age: this.age.value.trim(),
```

```
        email: this.email.value.trim(),
```

```
        country: this.country.value,
```

```
        skills: Array.from(this.skill).filter(chk => chk.checked).map(chk => chk.value),
```

```
        matches: this.matches.value.trim(),
```

```
        runs: this.runs.value.trim(),
```

```
        wickets: this.wickets.value.trim()
```

```
    };
```

```
    let valid = true;
```

```
    const isAlphabetic = txt => /^[A-Za-z ]+$/.test(txt);
```

```
    const isEmail = txt => /^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(txt);
```

```
    const isNumber = txt => /^\d+$/.test(txt);
```

```
    if (!data.name || !isAlphabetic(data.name)) {
```

```
    valid = false;

    showError('errName', 'Alphabetic name is required');
}

if (!data.dob) {

    valid = false;

    showError('errDob', 'Date of birth is required');
}

if (!data.age || !isNumber(data.age)) {

    valid = false;

    showError('errAge', 'Valid numeric age is required');
}

if (!data.email || !isEmail(data.email)) {

    valid = false;

    showError('errEmail', 'Valid email is required');
}

if (!data.country) {

    valid = false;

    showError('errCountry', 'Country is required');
}

if (data.skills.length === 0) {

    valid = false;

    showError('errSkill', 'Select at least one skill');
}

if (!data.matches || !isNumber(data.matches)) {

    valid = false;
```

```
        showError('errMatches', 'Valid number of matches is required');
    }

    if (!data.runs || !isNumber(data.runs)) {

        valid = false;

        showError('errRuns', 'Valid runs number is required');
    }

    if (!data.wickets || !isNumber(data.wickets)) {

        valid = false;

        showError('errWickets', 'Valid wickets number is required');
    }

    if (valid) {

        document.getElementById('successMsg').style.display = 'block';

        this.style.display = 'none';
    }
});
```

```
function showError(id, message) {

    document.getElementById(id).innerText = message;
}
```

```
function clearErrors() {

    document.querySelectorAll('.error').forEach(el => el.innerText = "");

    document.getElementById('successMsg').style.display = 'none';

    document.getElementById('playerForm').style.display = 'block';
}
```

```

    }
</script>

</body>

</html>

```

Output:

Player Details

*Name**

*DOB**

*Age**

*Email Id**

*Country** ▼

*Skill** ☐ Batting ☐ Bowling

Bat Style ☐ Right Handed ☐ Left Handed

Bowl Style ☐ Right Handed ☐ Left Handed

*Matches**

*Runs**

*Wickets**

Achievements

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

Code:

index.html

```
<!DOCTYPE html>
```

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

```
<head>
```

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

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
  <title>Color Picker</title>
```

```
  <style>
```

```
    body {
```

```
      transition: background-color 0.3s ease;
```

```
      font-weight: 300;
```

```
      font-style: oblique;
```

```
      padding: 40px;
```

```
      text-decoration: solid;
```

```
      text-align: center;
```

```
      font-weight: 200;
```

```
      font-size: xx-large;
```

```
    }
```

```
    h1 {
```

```
      margin-bottom: 20px;
```

```
    }
```

```
    .color-option {
```

```
      margin: 10px 0;
```

```
    }
```

```
    label {
        margin-left: 8px;
        font-weight: 500;
    }
</style>
</head>

<body>
    <h1>Select a Background Color:</h1>

    <div class="color-option">
        <input type="radio" name="bgColor" id="colorWhite" value="white" checked />
        <label for="colorWhite">White</label>
    </div>

    <div class="color-option">
        <input type="radio" name="bgColor" id="colorLightBlue" value="lightblue" />
        <label for="colorLightBlue">Light Blue</label>
    </div>

    <div class="color-option">
        <input type="radio" name="bgColor" id="colorLightGreen" value="lightgreen" />
        <label for="colorLightGreen">Light Green</label>
    </div>

    <div class="color-option">
```

```
<input type="radio" name="bgColor" id="colorLightYellow" value="lightyellow" />
<label for="colorLightYellow">Light Yellow</label>
</div>

<div class="color-option">
  <input type="radio" name="bgColor" id="colorLightGray" value="lightgray" />
  <label for="colorLightGray">Light Gray</label>
</div>

<script>

  const colorRadios = document.querySelectorAll('input[name="bgColor"]');

  colorRadios.forEach((radio) => {
    radio.addEventListener('change', () => {
      document.body.style.backgroundColor = radio.value;
    });
  });

  document.body.style.backgroundColor =
document.querySelector('input[name="bgColor"]:checked').value;

</script>
</body>

</html>
```

Select a Background Color:

- ☒ *White*
- ☐ *Light Blue*
- ☐ *Light Green*
- ☐ *Light Yellow*
- ☐ *Light Gray*

Select a Background Color:

- ☐ *White*
- ☒ *Light Blue*
- ☐ *Light Green*
- ☐ *Light Yellow*
- ☐ *Light Gray*

Select a Background Color:

- ☐ *White*
- ☐ *Light Blue*
- ☒ *Light Green*
- ☐ *Light Yellow*
- ☐ *Light Gray*

Select a Background Color:

- ☐ *White*
- ☐ *Light Blue*
- ☐ *Light Green*
- ☒ *Light Yellow*
- ☐ *Light Gray*

Select a Background Color:

- ☐ *White*
- ☐ *Light Blue*
- ☐ *Light Green*
- ☐ *Light Yellow*
- ☒ *Light Gray*