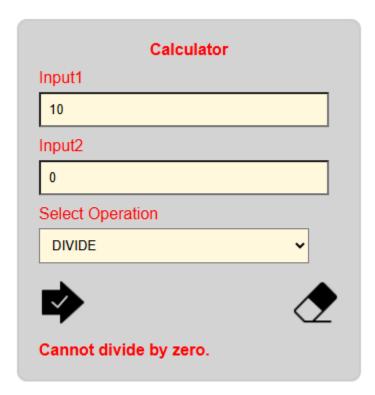
1.Simple Calculator

Label Name	Element Name	Constraints
Input1	input 1	This element is to get the first input. Type should be 'number'
Input2	input2	This element is to get the second input. Type should be 'number'
Select Operation	Operation	A drop down list contains the following values: Select, ADD, SUBTRACT, MULTIPLY and DIVIDE. Set these values as its option tag text and option tag's 'value' attributes
	Submit	An image for submit must be included using img tag
	Reset	An image for reset must be included using img tag



```
<meta charset="UTF-8">
<title>Simple Calculator</title>
   font-family: Arial, sans-serif;
   margin: 50px;
   max-width: 300px;
   padding: 20px 20px;
   border: 2px solid #ccc;
   border-radius: 10px;
   color:red;
 label {
   display: block;
   margin-top: 10px;
 input, select {
   width: 90%;
   padding: 8px;
   margin-top: 5px;
   display: flex;
   justify-content: space-between;
   margin-top: 15px;
   height: 48px;
 #result {
   margin-top: 15px;
   font-weight: bold;
```

```
<label for="input1">Input1</label>
   <input type="number" id="input1" name="input1">
   <label for="input2">Input2</label>
   <input type="number" id="input2" name="input2">
   <label for="operation">Select Operation</label>
     <option value="">Select..</option>
     <option value="SUBTRACT">SUBTRACT</option>
     <option value="MULTIPLY">MULTIPLY</option>
   <div class="buttons">
alt="Submit" onclick="calculate()">
alt="Reset" onclick="resetForm()">
   <div id="result"></div>
   function calculate() {
     const num1 = parseFloat(document.getElementById('input1').value);
     const num2 = parseFloat(document.getElementById('input2').value);
     const operation = document.getElementById('operation').value;
     const resultDiv = document.getElementById('result');
      if (isNaN(num1) || isNaN(num2)) {
```

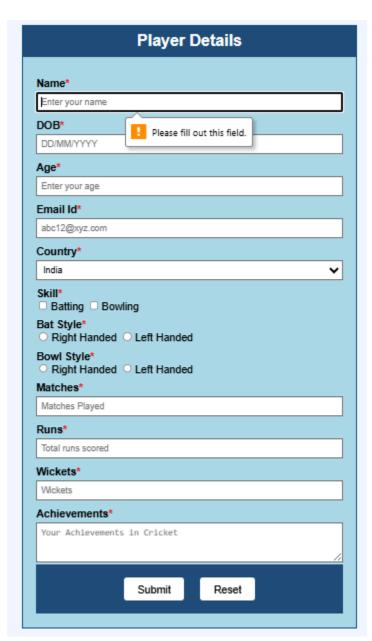
```
let result;
 switch (operation) {
     result = num1 + num2;
     result = num1 - num2;
   case "MULTIPLY":
     result = num1 * num2;
     result = num1 / num2;
      resultDiv.textContent = "Please select a valid operation.";
 resultDiv.textContent = "Result: " + result;
function resetForm() {
 document.getElementById('input1').value = '';
 document.getElementById('input2').value = '';
 document.getElementById('operation').value = '';
 document.getElementById('result').textContent = '';
```

2. Player Application Form Validation

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

- 1. All fields are mandators
- 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 lang="en">
 <meta charset="UTF-8">
 <title>Player Details</title>
    width: 500px;
    margin: 40px auto;
     background-color: #add8e6;
    font-size: 24px;
     font-weight: bold;
     padding: 20px;
   label {
    display: block;
    margin-top: 10px;
     font-weight: bold;
   .required::after {
   input[type="text"],
   input[type="email"],
```

```
input[type="date"],
     width: 100%;
     padding: 6px;
     margin-top: 5px;
   input[type="radio"],
   input[type="checkbox"] {
     margin-right: 5px;
   textarea {
     height: 60px;
     padding: 20px;
     background-color: #1e4f7b;
   .button-group input {
     padding: 8px 20px;
     margin: 0 10px;
     font-size: 16px;
     background-color: white;
     border: none;
     border-radius: 4px;
   .button-group input:hover {
     background-color: #ddd;
function validateForm() {
 const name = document.getElementById("name").value.trim();
 const dob = document.getElementById("dob").value.trim();
 const age = document.getElementById("age").value.trim();
 const email = document.getElementById("email").value.trim();
```

```
const country = document.getElementById("country").value;
 const matches = document.getElementById("matches").value.trim();
 const runs = document.getElementById("runs").value.trim();
 const wickets = document.getElementById("wickets").value.trim();
 const batting = document.getElementById("batting").checked;
 const bowling = document.getElementById("bowling").checked;
!wickets) {
 if (!nameRegex.test(name)) {
 if (!emailRegex.test(email)) {
   alert("Please enter a valid email address.");
 const numberFields = { age, matches, runs, wickets };
     alert(`${field.charAt(0).toUpperCase() + field.slice(1)} must be a
valid number.`);
```

```
alert("Form submitted successfully!");
<div class="container">
 <div class="header">Player Details</div>
 <form onsubmit="return validateForm()">
   <label class="required">Name</label>
   <input type="text" placeholder="Enter your name" required>
   <label class="required">DOB</label>
   <input type="text" placeholder="DD/MM/YYYY" required>
   <label class="required">Age</label>
   <input type="text" placeholder="Enter your age" required>
   <label class="required">Email Id</label>
   <input type="email" placeholder="abc12@xyz.com" required>
   <label class="required">Country</label>
   <select required>
     <option>Australia
     <option>South Africa
```

```
<input type="checkbox" name="skill" value="Batting">Batting
<input type="checkbox" name="skill" value="Bowling">Bowling
<label class="required">Bat Style</label>
<input type="radio" name="batStyle" value="Right Handed">Right Handed
<input type="radio" name="batStyle" value="Left Handed">Left Handed
<label class="required">Bowl Style</label>
<input type="radio" name="bowlStyle" value="Right Handed">Right Handed
<input type="radio" name="bowlStyle" value="Left Handed">Left Handed
<label class="required">Matches</label>
<input type="text" placeholder="Matches Played" required>
<label class="required">Runs</label>
<input type="text" placeholder="Total runs scored" required>
<label class="required">Wickets</label>
<input type="text" placeholder="Wickets" required>
<label>Achievements
<textarea placeholder="Your Achievements in Cricket"></textarea>
 <input type="submit" value="Submit">
 <input type="reset" value="Reset">
```

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



```
margin-bottom: 20px;
    label {
     display: block;
     margin: 10px 0;
      font-size: 18px;
  <div class="container">
    <h2>Select a Background Color</h2>
    <label><input type="radio" name="color" value="red"</pre>
onclick="changeColor(this.value)"> Red</label>
    <label><input type="radio" name="color" value="blue"</pre>
onclick="changeColor(this.value)"> Blue</label>
    <label><input type="radio" name="color" value="green"</pre>
onclick="changeColor(this.value)"> Green</label>
    <label><input type="radio" name="color" value="yellow"</pre>
onclick="changeColor(this.value)"> Yellow</label>
    <label><input type="radio" name="color" value="white"</pre>
onclick="changeColor(this.value)"> White</label>
    function changeColor(color) {
      document.body.style.backgroundColor = color;
```