## 1.Simple Calculator

Label Name	Element Name	Constraints
Input1	input1	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

```
<option value="">Select..</option>
        <option value="sub">Subtract</option>
    <button type="submit" onclick="calculation()">
        <img src="submit.jfif" alt="Submit" width="50" height="20" />
    <button type="reset">
        <img src="reset.png" alt="Reset" width="50" height="20" />
   Result : <span id="result"></span>
<script type="text/javascript">
    function calculation() {
        const a = parseInt(document.getElementById("number1").value);
        const b = parseInt(document.getElementById("number2").value);
        const op = document.getElementById("operation").value;
            alert("Fill all the fields");
                var res = a + b;
                document.getElementById("result").innerText = res;
                var res = a - b;
                document.getElementById("result").innerText = res;
                var res = a * b;
```

Input1 4
Input2 5
Select Operation Multiply >
Result: 20

## 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.

```
color: red;
   .success {
    color: green;
 <h2>Player Application Form</h2>
 <form id="playerForm" novalidate>
   <label for="playerName">Player Name:</label><br />
   <input type="text" id="playerName" name="playerName" /><br />
   <label for="email">Email:</label><br />
   <input type="email" id="email" name="email" /><br /><br />
   <label for="matches">Matches Played:</label><br />
   <input type="text" id="matches" name="matches" /><br />
   <label for="runs">Runs Scored:</label><br />
   <input type="text" id="runs" name="runs" /><br /><br />
   <label for="wickets">Wickets:</label><br />
   <input type="text" id="wickets" name="wickets" /><br /><br />
   <label for="age">Age:</label><br />
   <input type="text" id="age" name="age" /><br /><br />
   <input type="submit" value="Submit" />
 document.getElementById('playerForm').addEventListener('submit',
function(event) {
    event.preventDefault();
     const errorElem = document.getElementById('error');
     const successElem = document.getElementById('success');
     successElem.innerText = '';
```

```
const name = document.getElementById('playerName').value.trim();
const email = document.getElementById('email').value.trim();
const matches = document.getElementById('matches').value.trim();
const runs = document.getElementById('runs').value.trim();
const wickets = document.getElementById('wickets').value.trim();
const age = document.getElementById('age').value.trim();
if (isNaN(matches)) {
if (isNaN(runs)) {
 errorElem.innerText = "Runs Scored must be a number.";
if (isNaN(wickets)) {
 errorElem.innerText = "Wickets must be a number.";
if (isNaN(age)) {
 errorElem.innerText = "Age must be a number.";
if (!/^[A-Za-z\s]+\$/.test(name)) {
if (!/^[^\s@]+@[^\s@]+\.[^\s@]+$/.test(email)) {
 errorElem.innerText = "Email format is invalid.";
```

```
successElem.innerText = "Successfully Submitted";
});
</script>
</body>
</html>
```

## **Player Application Form**

Player Name:		
hello		
Email:		
surya.p_int@payoda.com		
Matches Played:		
12		
Runs Scored:		
11		
Wickets:		
2		
Age:		
33		
Submit		
Successfully Submitted		

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

```
text-align: center;
     padding: 20px;
    .color-options {
     text-align: left;
     padding: 20px;
     border-radius: 10px;
     background-color: #fff;
   .color-options label {
     display: block;
     margin: 10px 0;
 <h2>Select Background Color</h2>
   <label><input type="radio" name="bgColor" value="lightblue"> Light
Blue</label>
   <label><input type="radio" name="bgColor" value="lightgreen"> Light
Green</label>
   <label><input type="radio" name="bgColor" value="lightpink"> Light
   <label><input type="radio" name="bgColor" value="lightyellow"> Light
Yellow</label>
   <label><input type="radio" name="bgColor" value="#f0f0f0"> Default
Grey</label>
   const radios = document.querySelectorAll('input[name="bgColor"]');
```

```
radios.forEach(radio => {
    radio.addEventListener('change', function () {
        document.body.style.backgroundColor = this.value;
    });
    });
    </script>
</body>
</html>
```

## Select Background Color Light Blue Light Green Light Pink Light Yellow Default Grey