

TASK - 8

NAME : SANJEEV N

DATE : 17-7-2025

PROBLEM 1 : Simple Calculator

Simple Calculator

Input1:

Input2:

Select Operation:

SUBTRACT

▼

SUBMIT

✕

Result: 2

```
<!DOCTYPE html>
<html>
<head>
  <title>Simple Calculator</title>
  <style>
    .container {
      width: 300px;
      margin: 100px auto;
      padding: 20px;
    }
  </style>
</head>
<body>
  <div>
    <h3>Simple Calculator</h3>
    <p>Input1:</p>
    <input type="text" value="4">
    <p>Input2:</p>
    <input type="text" value="2">
    <p>Select Operation:</p>
    <div>
      <div>SUBTRACT</div>
      <div>▼</div>
    </div>
    <div>
      <div>SUBMIT</div>
      <div>✕</div>
    </div>
    <p>Result: 2</p>
  </div>
</body>
</html>
```

```
background-color: #84faa1;
border-radius: 10px;
text-align: center;

}

.container input, .container select {
width: 80%;
padding: 5px;
margin: 5px 0;
}

.container img {
margin: 10px;
cursor: pointer;
width: 40px;
}
</style>
<script>
function calculate() {
var num1 = parseFloat(document.getElementById("IN1").value);
var num2 = parseFloat(document.getElementById("IN2").value);
var operation = document.getElementById("operation").value;
var result;

if (operation == "ADD") {
result = num1 + num2;
} else if (operation == "SUBTRACT") {
result = num1 - num2;
} else if (operation == "MULTIPLY") {
result = num1 * num2;
} else if (operation == "DIVIDE") {
if (num2 != 0) {
result = num1 / num2;
} else {
result = "Cannot divide by zero";
}
} else {
result = "Please select a valid operation";
}

document.getElementById("result").innerHTML = "Result: " + result;
```


PROBLEM 3 : 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, the success page should be displayed.

Player Details

Name*

Sanjeev

DOB*

26/10/2004

Age*

21

Email Id*

sanjeevsanju2026@gmail.com

Country*

India

Skill*

☒ Batting ☐ Bowling

Bat Style

☐ Right Handed ☒ Left Handed

Bowl Style

☒ Right Handed ☐ Left Handed

Matches*

1

Runs*

123

Wickets*

12

Achievements

Your Achievements in Cricket

Submit

Reset

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Player Details</title>
  <style>
    body {
      background-color: white;
    }
    .container {
      width: 500px;
      margin: 40px auto;
      background-color: #add8e6;
    }
    .header {
      background-color: #1e4f7b;
      color: white;
      padding: 10px;
      text-align: center;
      font-size: 24px;
    }
    form {
      padding: 20px;
    }
    label {
      display: block;
      margin-top: 10px;
      font-weight: bold;
    }
    .required::after {
      content: "*";
      color: red;
    }
    input[type="text"],
    input[type="email"],
    input[type="date"],
    select,
    textarea {
      width: 100%;
      padding: 6px;
    }
  </style>

```

```

    margin-top: 5px;
    box-sizing: border-box;
}
textarea {
    height: 60px;
}
.button-group {
    text-align: center;
    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;
}
</style>
<script>
    function validateForm() {

        var name = document.getElementById("name").value.trim();
        var dob = document.getElementById("dob").value.trim();
        var age = document.getElementById("age").value.trim();
        var email = document.getElementById("email").value.trim();
        var matches = document.getElementById("matches").value.trim();
        var runs = document.getElementById("runs").value.trim();
        var wickets = document.getElementById("wickets").value.trim();

        if (name == "" || dob == "" || age == "" || email == "" || matches
== "" || runs == "" || wickets == "") {
            alert("All fields are mandatory.");
            return false;
        }
    }

```

```

        if (isNaN(age) || isNaN(matches) || isNaN(runs) || isNaN(wickets)) {
            alert("Age, Matches, Runs, and Wickets should be numbers.");
            return false;
        }

        var nameRegex = /^[A-Za-z ]+$/;
        if (!nameRegex.test(name)) {
            alert("Name should contain alphabets only.");
            return false;
        }

        var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
        if (!emailRegex.test(email)) {
            alert("Enter a valid email address.");
            return false;
        }

        alert("Form submitted successfully!");
        window.location.href = "success.html";
        return false;
    }
</script>
</head>
<body>

<div class="container">
    <div class="header"><b>Player Details</b></div>
    <form onsubmit="return validateForm();">
        <label class="required">Name</label>
        <input type="text" id="name" placeholder="Enter your name" required>

        <label class="required">DOB</label>
        <input type="text" id="dob" placeholder="DD/MM/YYYY" required>

        <label class="required">Age</label>
        <input type="text" id="age" placeholder="Enter your age" required>

        <label class="required">Email Id</label>
        <input type="email" id="email" placeholder="abc12@xyz.com" required>
    
```

```
<label class="required">Country</label>
<select required>
  <option>India</option>
  <option>Australia</option>
  <option>South Africa</option>
  <option>England</option>
</select>

<label class="required">Skill</label>
<input type="checkbox" name="skill" value="Batting">Batting
<input type="checkbox" name="skill" value="Bowling">Bowling

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

<label>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" id="matches" placeholder="Matches Played" required>

<label class="required">Runs</label>
<input type="text" id="runs" placeholder="Total runs scored" required>

<label class="required">Wickets</label>
<input type="text" id="wickets" placeholder="Wickets" required>

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

<div class="button-group">
  <input type="submit" value="Submit">
  <input type="reset" value="Reset">
</div>
</form>
</div>

</body>
```



```
</html>
```

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



```
<!DOCTYPE html>
<html>
<head>
  <title>Change Background Color</title>
  <style>
    .container {
      width: 250px;
      margin: 100px auto;
      background-color: white;
      padding: 20px;
      text-align: left;
      border: 1px solid #ccc;
      border-radius: 8px;
      box-shadow: 2px 2px 10px rgba(0,0,0,0.1);
    }

    .container h2 {
      text-align: center;
    }
  </style>
</head>
<body>
  <div class="container">
    <h2>Select Background Color</h2>
    <div>
      <input checked="" type="radio"/> Red
      <input type="radio"/> Green
      <input type="radio"/> Blue
      <input type="radio"/> Yellow
      <input type="radio"/> Pink
    </div>
  </div>
</body>
</html>
```



```
<div class="color-option">
  <input type="radio" name="bgcolor" value="yellow"
onclick="changeColor()" > <label>Yellow</label>
</div>
<div class="color-option">
  <input type="radio" name="bgcolor" value="pink"
onclick="changeColor()" > <label>Pink</label>
</div>

</div>

</body>
</html>
```