

Program# 7: Generate the calendar of a month using JavaScript code by getting the year and month from the user.

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Monthly Calendar</title>
  <link rel="stylesheet" href="/style.css">
</head>
<body>
  <div class="container">
    <h1>Monthly Calendar</h1>
    <div class="input-section">
      <label for="year">Year:</label>
      <input type="number" id="year">
      <label for="month">Month:</label>
      <input type="number" id="month" >
      <button id="searchButton">Search Date</button>
    </div>
    <div id="calendar">
      <h2 id="monthYear"></h2>
    </div>
  </div>
  <script src="/script.js"></script>
</body>
</html>
```

Style.css

```
body {  
    font-family: Arial, sans-serif;  
    background-image: url('./Spiderman.jpg');  
    background-size: cover;  
    background-repeat: no-repeat;  
    background-attachment: fixed;  
    background-position: center;  
    color: #F8F9FA; /* White */  
    margin: 0;  
    padding: 0;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    height: 100vh;  
}
```

```
.container {  
    text-align: center;  
    padding: 20px;  
    border: 2px solid #4682B4;  
    border-radius: 10px;  
    background-color: #708090;  
    width: 320px;  
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);  
}
```

```
h1 {  
    margin-bottom: 20px;  
    color: #FF4500;
```

```
}
```

```
.input-section {  
  margin-bottom: 20px;  
}
```

```
label {  
  font-weight: bold;  
  margin-right: 5px;  
  color: #F8F9FA;  
}
```

```
input {  
  padding: 5px;  
  border: 1px solid #4682B4;  
  border-radius: 5px;  
  width: 80px;  
  margin-right: 10px;  
  margin-bottom: 10px;  
  background-color: #F8F9FA;  
  color: #2B2D42;  
}
```

```
button {  
  background-color: #FF4500;  
  color: #F8F9FA;  
  border: none;  
  padding: 8px 12px;  
  border-radius: 5px;  
  cursor: pointer;  
  font-weight: bold;
```

```
}
```

```
button:hover {  
    background-color: #D90429;  
}
```

```
#monthYear {  
    margin: 20px 0 10px;  
    color: #00CED1;  
    font-size: 1.2em;  
}
```

```
table {  
    border-collapse: collapse;  
    width: 100%;  
    margin-top: 10px;  
}
```

```
th, td {  
    border: 1px solid #4682B4;  
    padding: 5px;  
    text-align: center;  
    color: #F8F9FA;  
}
```

```
th {  
    background-color: #4682B4;  
}
```

```
td {  
    background-color: #2B2D42;
```

```
}
```

```
.empty {  
  background-color: #708090;  
}
```

Script.js

```
function generateCalendar(year, month) {  
  const daysInWeek = ['Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat'];  
  const monthNames = [  
    'January', 'February', 'March', 'April', 'May', 'June',  
    'July', 'August', 'September', 'October', 'November', 'December'  
  ];  
  const daysInMonth = new Date(year, month + 1, 0).getDate();  
  const firstDay = new Date(year, month, 1).getDay();  
  
  const monthYear = document.getElementById('monthYear');  
  monthYear.textContent = `${monthNames[month]} ${year}`;  
  
  // Create table  
  const table = document.createElement('table');  
  const headerRow = document.createElement('tr');  
  
  daysInWeek.forEach(day => {  
    const th = document.createElement('th');  
    th.textContent = day;  
    headerRow.appendChild(th);  
  });  
  table.appendChild(headerRow);
```

```

let date = 1;
for (let i = 0; i < 6; i++) {
  const row = document.createElement('tr');
  for (let j = 0; j < 7; j++) {
    const cell = document.createElement('td');
    if (i === 0 && j < firstDay || date > daysInMonth) {
      cell.classList.add('empty');
      cell.textContent = "";
    } else {
      cell.textContent = date;
      date++;
    }
    row.appendChild(cell);
  }
  table.appendChild(row);
  if (date > daysInMonth) break;
}

```

```

// Display table
const calendarDiv = document.getElementById('calendar');
calendarDiv.innerHTML = "";
calendarDiv.appendChild(monthYear);
calendarDiv.appendChild(table);
}

```

```

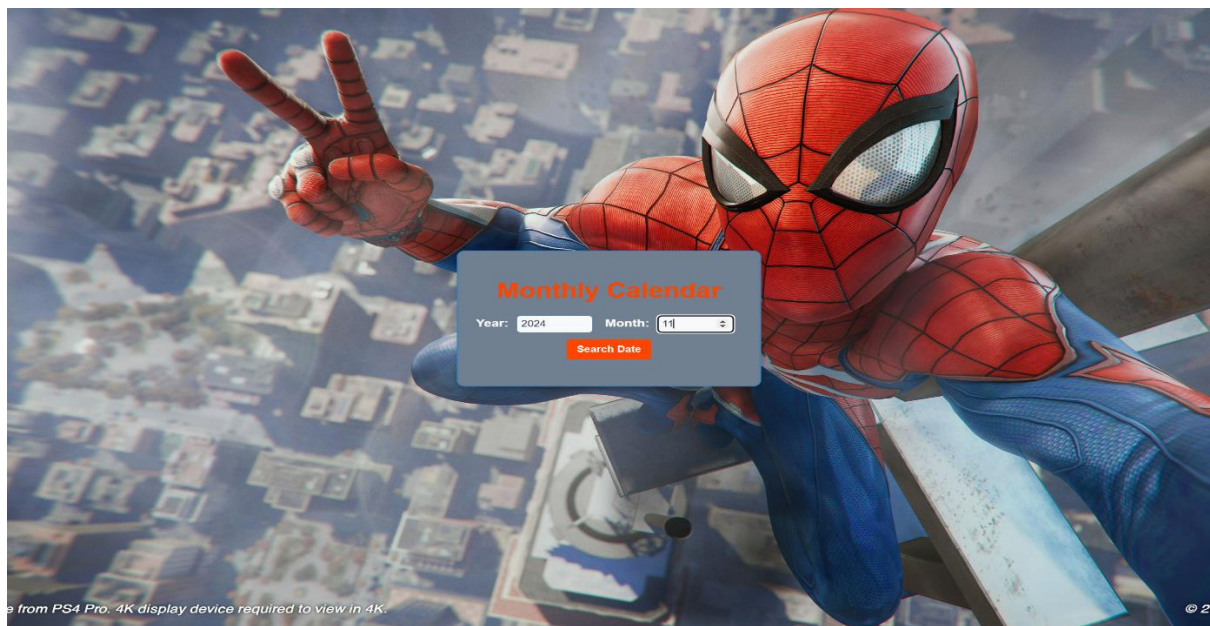
document.getElementById('searchButton').addEventListener('click', () => {
  const year = parseInt(document.getElementById('year').value, 10);
  const month = parseInt(document.getElementById('month').value, 10) - 1;

  if (!isNaN(year) && !isNaN(month) && month >= 0 && month <= 11) {

```

```
generateCalendar(year, month);  
  
    } else {  
alert("Invalid input. Please enter a valid year and month.");  
  
    }  
  
});
```

Before entering search button :



After entering search button:

