

Program 7

Generate a calendar using JavaScript code by getting the year and month from the user.

calendar.html:

```
<html>
  <head>
    <title>Calendar in JS</title>
    <link rel="stylesheet" type="text/css" href="calStyle.css">
  </head>
  <body>
    <h2><center>CALENDAR USING JAVASCRIPT<center></h2>
    <br/>
    <script src="calScript.js"></script>

    Year: <input id="y" type="number" name="year"><br/><br/>
    Month:<input id="m" type="number" name="month"><br/><br/>
    <input type="button" value="Calendar" onclick="createCalendar()"> <br/>
    <br/>
    <div id="cal"></div>
  </body>
</html>
```

calScript.js:

```
function createCalendar() {
  var year = document.getElementById("y").value;
  var month = document.getElementById("m").value;
  let mon = month - 1; // months in JS are 0..11, not 1..12

  let d = new Date(year, mon);
  let table = '<table><tr><th>SUN</th><th>MON</th><th>TUE</th>
<th>WED</th><th>THU</th><th>FRI</th><th>SAT</th></tr><tr>';
```

```

for (let i = 0; i < d.getDay(); i++) {
    table += '<td></td>';
}

while (d.getMonth() == mon) {
    table += '<td>' + d.getDate() + '</td>; // Add the day number

    if (d.getDay() == 6) {
        table += '</tr><tr>; // Close the current row and start a new one
    }
    d.setDate(d.getDate() + 1);
}

if (d.getDay() != 0) {
    for (let i = d.getDay(); i < 7; i++) {
        table += '<td></td>';
    }
}

table += '</tr></table>';
document.getElementById("cal").innerHTML = table;
}

```

calStyle.css:

```

body {
    text-align: center;
    background-color: #f5f5f5;
    margin: 0;
    padding: 20px;
}

h2 {
    color: #333;
}

```

```
input[type="number"]{  
    padding: 6px;  
    margin: 5px;  
    width: 120px;  
    border: 1px solid #aaa;  
    border-radius: 4px;  
}  
  
input[type="button"]{  
    padding: 8px 16px;  
    margin-top: 10px;  
    background-color: #4CAF50;  
    border: none;  
    color: white;  
    border-radius: 4px;  
}  
  
#cal{  
    margin: 20px auto;  
    width: fit-content;  
    background-color: white;  
    border: 1px solid #ccc;  
    border-radius: 6px;  
    padding: 10px;  
}  
  
#cal table{  
    border-collapse: collapse;  
    margin: 0 auto;  
}
```

```

#cal th, #cal td {
    border: 1px solid #ccc;
    padding: 8px;
    width: 40px;
    text-align: center;
}

#cal th {
    background-color: #e0e0e0;
}

```

OUTPUT:

CALENDAR USING JAVASCRIPT

Year:

Month:

Calendar

SUN	MON	TUE	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31