

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 |