

WPL-Program 7

calender.html:

```
<html>
<head>

<title>Calendar</title>
<style>
body {
    font-family: Arial, Helvetica, sans-serif;
    background: #ffffff;
    color: #000000;
    padding: 20px;
}

.controls {
    max-width: 420px;
    border: 2px solid #000;
    padding: 10px;
    background: #f9f9f9;
}

.controls label {
    display: block;
    margin-bottom: 6px;
    font-weight: bold;
}
```

```
.controls input[type="number"] {  
    width: 100%;  
    padding: 6px;  
    font-size: 16px;  
    border: 1px solid #000;  
    margin-bottom: 8px;  
    box-sizing: border-box;  
    background: #ffffff;  
}  
  
}
```

```
.controls .buttons {  
    margin-top: 6px;  
}  
  
}
```

```
button {  
    padding: 6px 10px;  
    font-size: 16px;  
    border: 1px solid #000;  
    background: #e0e0e0;  
    cursor: pointer;  
    margin-right: 6px;  
}  
  
}
```

```
.calendar {  
    max-width: 420px;  
    margin-top: 14px;  
    border: 2px solid #000;
```

```
padding: 6px;  
background: #fff;  
}  
  
  
table {  
width: 100%;  
border-collapse: collapse;  
font-size: 14px;  
}  
  
  
th, td {  
border: 1px solid #000;  
padding: 8px;  
text-align: center;  
}  
  
  
th {  
background: #dddddd;  
font-weight: bold;  
}  
  
  
td.inactive {  
color: #888888;  
background: #fafafa;  
}  
  
  
td.today {  
background: #ffff99;
```

```
}

.cal-header {
    margin-bottom: 8px;
    font-weight: bold;
    text-align: left;
}

.footer {
    margin-top: 8px;
    font-size: 13px;
}

</style>
</head>
<body>
    <div class="controls">
        <label>
            Year
            <input id="yearInput" type="number" min="1" max="9999" value="" />
        </label>
        <label>
            Month (1-12)
            <input id="monthInput" type="number" min="1" max="12" value="" />
        </label>
        <div class="buttons">
            <button id="showBtn">Show</button>
        </div>
    </div>
```

```
<div id="calendarContainer" class="calendar"></div>

<script>

var yearInput = document.getElementById('yearInput');

var monthInput = document.getElementById('monthInput');

var showBtn = document.getElementById('showBtn');

var container = document.getElementById('calendarContainer');

var monthNames =
["January","February","March","April","May","June","July","August","September","October","November","December"];

var dayNames = ["Sun","Mon","Tue","Wed","Thu","Fri","Sat"];


function renderCalendar(year, month) {
    year = parseInt(year, 10);
    month = parseInt(month, 10);

    if (isNaN(year) || isNaN(month) || month < 1 || month > 12) {
        container.innerHTML = '<div class="cal-header">Invalid year or month</div>';
        return;
    }

    var firstDayIndex = new Date(year, month - 1, 1).getDay();
    var daysInMonth = new Date(year, month, 0).getDate();
    var prevMonthDays = new Date(year, month - 1, 0).getDate();

    var html = ";
```

```
html += '<div class="cal-header">' + monthNames[month - 1] + ' ' + year + '</div>';

html += '<table>';

html += '<thead><tr>';

for (var d = 0; d < 7; d++) {

    html += '<th>' + dayNames[d] + '</th>';

}

html += '</tr></thead><tbody>';

var day = 1;

var started = false;

for (var week = 0; week < 6; week++) {

    if (started && day > daysInMonth) {

        break;

    }

    html += '<tr>';

    for (var dow = 0; dow < 7; dow++) {

        var cell = "";

        if (!started && dow === firstDayIndex) {

            started = true;

        }

        if (!started) {

            var num = prevMonthDays - (firstDayIndex - 1 - dow);

            cell = '<td class="inactive">' + num + '</td>';

        } else if (day > daysInMonth) {

            var nextDay = day - daysInMonth;


```

```
    cell = '<td class="inactive">' + nextDay + '</td>';
    day++;
} else {
    cell = '<td>' + day + '</td>';
    day++;
}
html += cell;
}
html += '</tr>';
}
```

```
html += '</tbody></table>';
container.innerHTML = html;
}
```

```
function showFromInputs() {
    var now = new Date();
    var defaultYear = now.getFullYear();
    var defaultMonth = now.getMonth() + 1;
```

```
    var y = yearInput.value || defaultYear;
    var m = monthInput.value || defaultMonth;
    renderCalendar(y, m);
}
```

```
var now = new Date();
yearInput.value = now.getFullYear();
monthInput.value = now.getMonth() + 1;
```

```
renderCalendar(yearInput.value, monthInput.value);

showBtn.addEventListener('click', showFromInputs);

yearInput.addEventListener('keydown', function (e) {
  if (e.key === 'Enter') {
    showFromInputs();
  }
});

monthInput.addEventListener('keydown', function (e) {
  if (e.key === 'Enter') {
    showFromInputs();
  }
});

monthInput.addEventListener('input', function () {
  var m = parseInt(monthInput.value, 10);
  if (isNaN(m)) return;
  if (m < 1) monthInput.value = 1;
  if (m > 12) monthInput.value = 12;
});

yearInput.addEventListener('input', function () {
  var y = parseInt(yearInput.value, 10);
  if (isNaN(y)) return;
  if (y < 1) yearInput.value = 1;
  if (y > 9999) yearInput.value = 9999;
});
```

```
</script>  
</body>  
</html>
```

Screenshot:

The screenshot shows a web browser window with the URL 127.0.0.1:5500/wpl7.html. The page contains a form for selecting a year and month, followed by a calendar grid for December 2024.

Form Fields:

- Year:** A dropdown menu set to 2024.
- Month (1-12):** An input field set to 12.
- Show:** A button to display the calendar.

Calendar Grid:

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	1	2	3	4
5	6	7	8	9	10	11