

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:

