

JS Assign 3 Develop a Calendar application

Problem Description

In this assignment, you'll create an application that dynamically displays a calendar for the current month using Javascript:

January 2019						
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		

Note: To build this calendar, you're going to need the **getDay** method of a **Date** object. This method returns the number of the day of the week (0 for Sunday, 1 for Monday, etc.). This and most other functionality you may need for this assignment will be found in **pages 216-221 in the textbook**. The calendar must be created dynamically using Javascript and will work regardless of what the current month is. Any "hardcoding" may result in loss of marks.

Open the HTML, CSS, and JavaScript files in this folder: *Assign3_Calendar_Start*

1. In the HTML file, note the span element within the h1 element that will display the month name and year. Note also the table element that contains one row. To build the calendar, you need to add rows to this table after the row that it already contains.
2. In the CSS file, note the rule set for the td elements of the table. The rules in this set will format the calendar as shown above.
3. In the JavaScript file, note that four functions are supplied. The \$ function. A **getMonthText** function that will accept the number for a month and returns the month name in text. The **getLastDayofMonth** function will return the last day of the current month. And the start of the onload event handler.
4. Write the code for the **getLastDayofMonth** function. It should use the number passed in the **currentMonth** parameter to calculate and return the last day of the current month. See **figure 7-11** in your textbook for ideas on how to code this.
5. In the **onload** event handler, write the code that gets and displays the name of the current month and the current year above the month table.
6. In the **onload** event handler, write the code that loops through the days of the month to create the rows for the calendar. Remember to deal with the blank dates that can occur at the beginning of the first week and the end of the last week of the month. Use a **tr** element for each new row and **td** elements within the rows for the days of the months. To display the rows, add them to the

innerHTML property of the calendar table, but remember that the new rows have to go after the row that's in the HTML.

Rubric (10 points) The assignment will be assessed according to the following criteria:

- Problem Has Been Solved and meets all requirements based on the Written Instructions (10 pts)
- Mostly Meets Requirements (7-9pts)
- Somewhat Meets Requirements (4-6pts)
- Rarely Meets Requirements (1-3pts)
- Not Attempted (0 pts)