

CMPS 2680 Lab 7

Fall 2024

Part 1 - Setup

1. For this assignment you will have multiple files, so I would highly recommend creating a lab7 folder.
2. Inside of the lab7 folder you will run the following commands:

```
touch lab7.html script.js style.css
```

This will create all three files you will need for this lab with one command.

Part 2 - Find Multiples

lab7.html:

1. Make sure to source your script.js and style.css files.
2. In the body, you will have a container div with two main elements inside of it:
 - An <input> element with the id 'userInput'
 - A <div> element with the id 'multiples'
 - You may also want to include some headers to label each element.

script.js:

1. Use getElementById and addEventListener to add a "keyup" event to the 'userInput' element. This event will call the **generateMultiples** function you will define later.
2. Define a function called **generateMultiples()** that will do the following (in this order):
 - a. IF **this.value** is blank OR **this.value** is not a number:
 - Update the **innerHTML** of the 'multiples' element with an error message
 - End the function early using a **return;** statement.
 - b. Pass **this.value** to the **parseInt** function, and assign the returned value to a variable called **base**
 - c. Create an array called **nums** with the values 1 through 12
 - d. Use a for loop to iterate through the **nums** array.
For each element in the array you will add the following to the **innerHTML** of the 'multiples' div:
 - multiply **base** by **nums[i]** to get each multiple value
 - use string concatenation to place each multiple value inside of a paragraph element
 - IF **i** is even, make the class for the <p> element 'a'
 - IF **i** is odd, make the class for the <p> element 'b'

style.css:

1. Set the width of the container div and center it on the page.
2. Add a text shadow to the headers/labels
3. Apply some interesting style/color to the id **userInput**.
4. Apply a different style to **class a** and **class b** so that every other multiple stands out. Even though they will have different styles, they should still be cohesive/complimentary.

Completed Example

Enter a number:

5

Multiples:

5

10

15

20

25

30

35

40

45

50

55

60

Enter a number:

bad input

Multiples:

ENTER A VALID NUMBER!