BCVD1006 – Full Stack Development – Lab 9

- JavaScript Functions

Developer Note:

- Please create a separate file for each exercise ie. exercise1.html

Exercise 1:

Create an HTML page that has a script tag **<script>** in the head tag.

1. Create simple function named **HelloWorld** with no parameters
2. Output the message to console "**My first JS function**" before the **HelloWorld** function declaration
3. Output the message to console "**Hello World**" inside the function
4. **Invoke** the function HelloWorld in your script.

The output should be as follows in the console.

```
My first JS function
Hello World
```

Exercise 2:

Create an HTML page that has a script tag **<script>** in the head tag.

1. Create simple function named **DisplayMessage** with one parameter **message**
2. Add a conditional statement that test the following:
    a. Test the value of the message is not **null,** if is then output to console **"message is null"**
    b. Test if the value is **""** empty string, if it is then output **"message is empty"**
    c. Otherwise, output the value of the message to console
3. **Invoke** the function and call it with different parameters

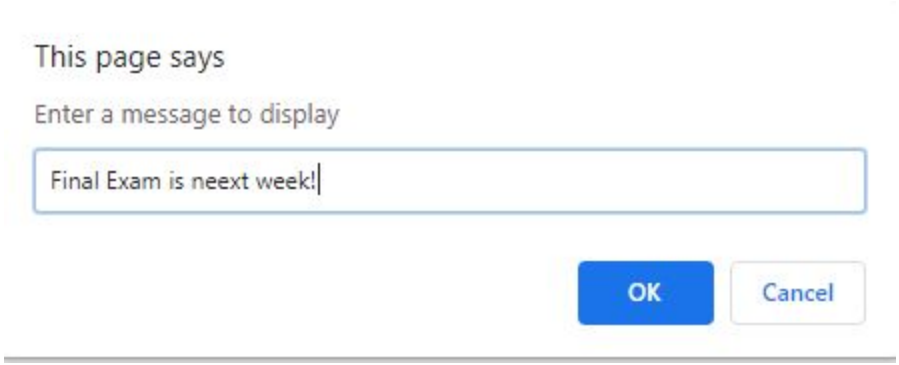
The output should be as follows in the console.

```
message is null
message is empty
false
This is a test
pizza!
and wings!
```

Exercise 3:

Create an HTML page that has a with an external JavaScript file Ex3.js linked in the <head> tag

1. Reuse the function named **DisplayMessage**from Ex 2
2. Create a new function promptUser that will
    a. use the web.api prompt() to prompt the user https://developer.mozilla.org/en-US/docs/Web/API/Window/prompt
    b. Use the result the message to call the DisplayMessage function that will display it to the console

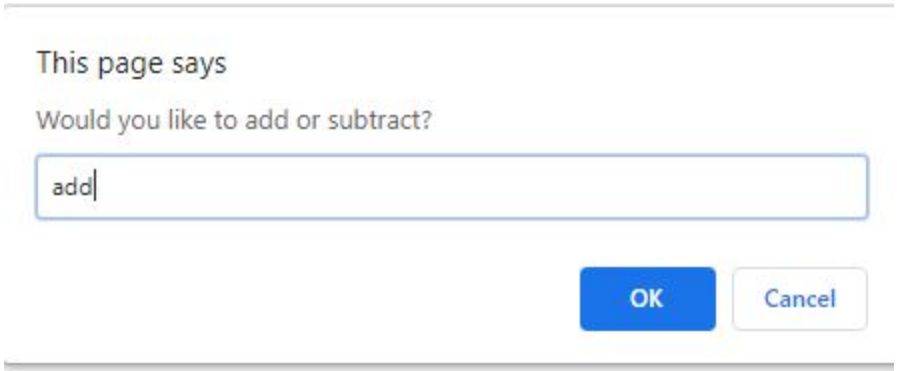


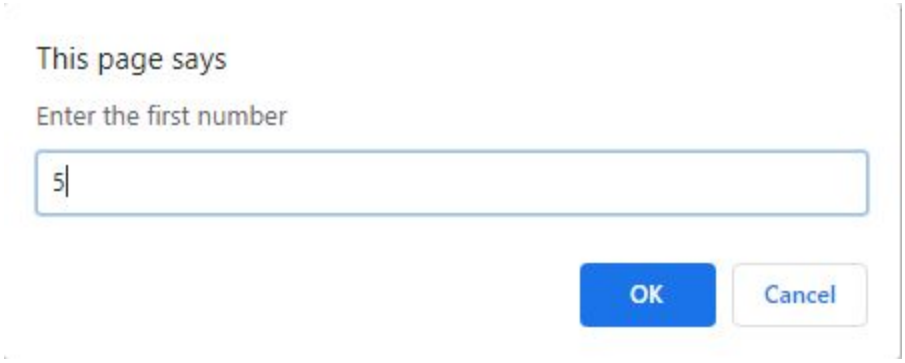
Exercise 4:

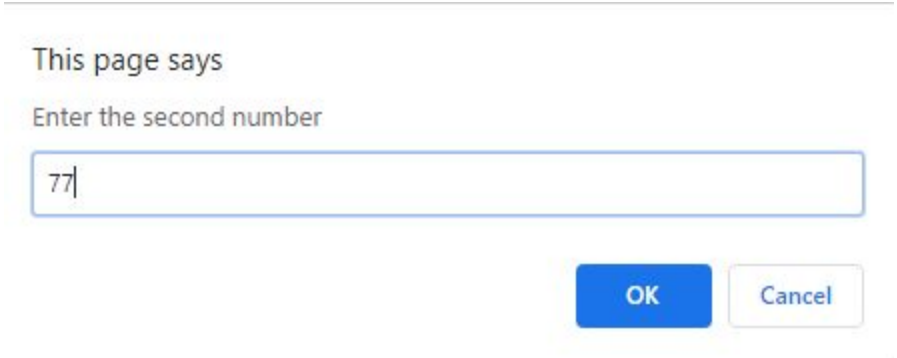
Create an HTML page that has a with an external JavaScript file Ex4.js linked in the <head> tag

1. Create two function **addNumbers** and **subtractNumbers**. Each function will take two numbers as parameters
2. In the **addNumbers** function, add the two numbers and output the result to the console
3. In the **subtractNumbers** function, subtract two numbers and output
4. Add another function named **userPrompt,** that will use the **web api prompt** get the following values from the user
    - Ask the user for his choice of operation, either **add** or **subtract**
    - Ask the user for the **first number**
    - Ask the user for the **second number**
5. You will need to check the user's choice and then have **conditional operators** to **invoke the add or subtract methods** and **pass the first and second number**
6. If the user does not provide add or subtract, then have a **default case** to output that the selection is invalid

Hint: you will need to use parseInt to convert the number from the prompt to an integer
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/parseInt








```
Adding two numbers 5 and 77
The sum is 82
```

Subtract output

```
Subtracting two numbers 40 and 12
The difference is 28
```

Handling the case where “add” or “subtract” was not provided…

```
Unknown operation entered!
```

Challenge:

Expand question 4 do the following

- add multiple and division selections.
- handle inputs that are not numeric
- change the operation selection from a word to operator symbol ie. +, -, *, / instead of add/subtract etc..