

### Assignment 3 Simple JavaScript Calculator (10 pt total)

1 Write an HTML document (calculator.html) whose sole function is to load and execute a JavaScript file calculator.js. The JavaScript code repeatedly prompts for 2 numbers (x and y) and for an arithmetic operator (addition (+), subtraction (-), modulus (%), division (/), or multiplication (\*)) as shown in the three dialog boxes below. (1pt)

localhost:63343 says  
Value of x  
2  
OK Cancel

localhost:63343 says  
operator  
+  
OK Cancel

localhost:63343 says  
Value of y  
3  
OK Cancel

Then the page asks the user to continue the loop as shown below. The user exits the loop by clicking the cancel button. If the user clicks OK, then the page will show three prompts again to get more user input (1pt).

localhost:63343 says  
Continue?  
OK Cancel

The program constructs a table in which shows numbers, an operator, and a computation result as a row. If an operator is not one of (+, -, \*, /, %), then the table shows an error message in the result column. If the user puts non-numeric characters for x and y (you can check it by `isNaN(...)`), then the table shows another error message in the result column (JavaScript code 3pt, table 1pt). The image below shows the examples of the table:

x	op	y	result
20	*	123	2460
ds	+	20	wrong input number
200	&	23	computation error

The simplest way to create a table with JavaScript is

```
document.write("<table>");
document.write("<tr><th>header1</th>.... <th>headerN</th></tr>");
document.write("<tr><td>column1</td>.... <td>columnN</td></tr>");
document.write("</table>");
```

Define your own table style. You can find how to style an HTML table here:

[https://www.w3schools.com/css/css\\_table.asp](https://www.w3schools.com/css/css_table.asp)

After exiting the loop, the program constructs another table in which shows a minimum, maximum, average, and total of the results as a row. For this table, do not use any results that have an error (JavaScript code 3pt, table 1pt). The below images are examples:

x	op	y	result
10	*	20	200
104	%	3	2
10	+	20	30
5	/	5	1
Min	Max	Average	Total
1	200	58.25	233

x	op	y	result
10	a	2	computation error
10	-	8	2
200	*	4	800
a	+	1	wrong input number
Min	Max	Average	Total
2	800	401	802

### Submission:

Upload the calculator.html and calculator.js files to blackboard and your VM. Add a link in ~~"index.html" to go to "calculator.html"~~ and your VM. Add a link in

No submission will be accepted by email.