**Javascript Homework** – **Ten Points** will be given for each problem using the following rubric:

**Programming Construct Points**

|  |  |
| --- | --- |
| **Use of comments** | **1** |
| **Indentations** | **1** |
| **Correct structure of programming constructs including use of functions, buttons, code statements, loops etc.** | **3** |
| **Code that runs (yes or no)** | **3** |
| **Accurate computation and formatting of results** | **2** |

So, for example you write a JS program but it doesn’t run (0) but you have comments (+1), indentations (+1), the basic structure of the code (+3), and no computation results (0). Score: 5

**Problem 1 ( 10 Points)**

Write an HTML file that has Javascript code in it. The filename will be called button.html

The JS code can be in the <head> section or the <body> section. The JS code and HTML code will do the following:

1) Create an HTML button that will trigger the execution of a function named doMath.

2) The doMath function will prompt the user for three numbers and will determine which number is the smallest.

3) The function will print out to the user via an alert of the smallest number.

**Problem 2 – (10) Points** will be given according to the rubric at the top of this page.

Write an HTML file that has Javascript code in it. The filename will be called score.html

The JS code can be in the <head> section or the <body> section. The JS code and HTML code will do the following:

Create a button that will call a function that creates an array with the following scores on a test. S1 = 60, S2 = 70, S3 = 99, S4 = 82, S5 = 77, S6 = 100, S7 = 75, S8 = 88, S9 = 100, S10 = 75.

Next, run another function (via a calling statement in the code) that will use a for loop to read the scores and categorize them as follows: A = 90 – 100, B = 80-89, C = 70 – 79, D = 60 -69 and F <60.

Alternative: If you want you can do it all in one function.

Print out the following message: There are x A’s, x B’s, x C’s , x D’s and x F’s. Obviously, the x stands for a variable representing the actual number.

Also, print out the average score with a statement that says the average score of the tests is: x.