WEB222 Assignment 1 [10+9+1=20 marks]

Due: Sunday, January 30, 2022 @23:59

Objective:

Practice JavaScript basic syntax, built-in functions, and user-defined functions.

Specification:

Write a JavaScript program **a1.js** to perform the following two (2) tasks.

Create comment line(s) for each of the Tasks using block comments, indicating the start point of each Task. e.g.

Task 1: Play with numbers [10 marks]

Using function declaration, define a JavaScript function (name it: playNumbers),

which takes indefinite number of parameters.

This function does not return any value. Instead,

(1) if the function call didn't pass any arguments, your function displays:

There are no inputs.

program terminates.

(2) if one or more arguments are not numbers, your function displays:

(The parameter) is not a number.

for all the arguments that are not a number.

e.g. if the parameters are ("abc", 3, "hello"), your program displays:

abc is not a number.

hello is not a number.

program terminates.

- (3) Otherwise (if not (1) nor (2)),
- (3.1) it displays the largest value of all the parameters in the format:

The largest number of (para1, para2,...) is (the largest value).

e.g., The largest number of (9, 3, 6) is 9.

NOTE: You need to write the logic to get the largest value.

Do not use the built-in function.

(3.2) it displays the average of all the values in the format:

The average of (para1, para2, ...) is (the average).

e.g., The average of (9, 3, 6) is 6.

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(4) Test your program using the following statements.
   playNumbers();
   playNumbers("abc", 3, "hello");
   playNumbers(9,3,6);
   playNumbers(3,5,1,3,5);
   playNumbers("Good day!",3,4,32,"hi", "we");
  output is as follows:
There are no inputs.
abc is not a number.
hello is not a number.
The largest number of (9, 3, 6) is 9
The average of (9, 3, 6) is 6
The largest number of (3, 5, 1, 3, 5) is 5
The average of (3, 5, 1, 3, 5) is 3.4
Good day! is not a number.
hi is not a number.
we is not a number.
```

Task 2: Celsius and Fahrenheit temperature converter [9 marks]

this function takes two parameters (val, cf),

Using function expression, write a JavaScript function (name it: convertCF) convert temperatures between Celcius and Farenheit.

```
where val is the value you need to convert.
This function does not return any result.
(1) if val is not a number, your function displays, "I need a number".
terminate the program.
(2) if cf is not "C" or "F", your function displays "I am confused :("
terminate the program.
(3) if cf is "C", val is the value in Celcius, your function will convert it to Farenheit degree, and display:
(val)C is equivalent to (the result from your calculation)F.
e.g., call function convertCF(0, C), it displays:
0C is equivalent to 32F.
```

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(4) if cf is "F", val is the value in Farenheit, your function will convert it to Celcius degree, and display:
      (val)F is equivalent to (the result from your calculation)C.
      e.g., call function convertCF(122, F), it displays:
      122F is equivalent to 50C.
    (5) test (call) your function with the example input (parameters):
     (0, C)
     (32, F)
     (122, F)
*/
    Test with the following statements. The corresponding result follows.
    convertCF("avc", "F");
    convertCF("32", "M");
    convertCF(32, 'F');
    convertCF(0, "C");
    convertCF(122, "F");
    Sample result for the above function calls:
    I need a number.
    I am confused:(
    32F is equivalent to 0C
    0C is equivalent to 32F
    122F is equivalent to 50C
Submission:
Save your file as a1.js. Add the following comment declaration with your info at the top of your
code:
       * Assignment 1
      * I declare that this assignment is my own work in accordance with Seneca Academic Policy.
      * No part of this assignment has been copied manually or electronically from any othersource
      * (including web sites) or distributed to other students.
     * Name: __Student ID: ___Date: _____
```

Submit your a1.is to Blackboard -> assignments -> A1

Late submission:

10% penalty each day for up to 5 school days. After that, no submission will be accepted.