The test is open book. You are allowed to consult your notes, class exercises, class notes to complete the test.

You are NOT allowed to consult or discuss the test with any other person. Doing so is considered cheating and will result in a grade of 0 for all persons involved and other possible consequences.

For this exam you must complete the instructions listed below using the files provided in the the zip folder. The contents of this folder are all that you need to complete the test; HTML, CSS, and JavaScript files.

TO GET FULL MARKS, YOU MUST:

Follow all directions below

- In particular make sure that required function names, variable names, output strings
- and return string as spelled and capitalized exactly as described in this document.
- Make sure that your JavaScript does not generate any errors, It is better to have part of your code working than none of your code at all.
- Write your name and student ID in the space provided.
- Indent your code properly
- Name your functions and variable appropriately.
- Unless you are provided specific function or, variable names, you can use any
- appropriate name.
- The purpose of any function or variable should be obvious from its name.
- You are allowed, but not obligated, to create other functions you feel are necessary.
- Comment your work
- A comment every line is not needed, but there should be enough comments to fully understand your script.
- English and French are accepted for comments.
- You are not required to validate unless it is specifically indicated.

Good Luck!

PART 1

The object of this script will be to complete a tip calculator.

The instructions for each as provided below.

When told to alert something, call the function output() already provided in the JavaScript file and copy the provided string as it is written in the exam.

1. Retrieve the three values from the HTML form elements and save them into variables.

• Use the variable names: billAmount, service, and numPeople

2. Validate that "Bill Total" and "Service Satisfaction" have been entered and are numbers

• If validation fails, you should show an alert that says "Please fill out all the fields"

• If validation passes, continue to the next step.

3. For "People in Party" if nothing is entered, or a negative value is entered, assume that there is

only one person in the party

• Update the HTML form element to reflect this value.

4. Calculate the tip and save in variable billTip

• Tip is calculated by multiplying the bill amount by the service.

5. Calculate the total amount of the bill and save in variable billTotal

• Total amount is calculated by adding the bill amount and the tip.

6. Display the total tip per persons in tipAndTotal

• Amounts should only display 2 decimal points

• Tip/person: _____ $

7. Display the total amount per persons in tipAndTotal

• Amounts should only display 2 decimal points

• Total/person: _____ $

9. Show an Alert to say "Your waiter, thanks you";

BONUS:

1. CSS can be applied to the total tip and total amount that you display in steps 6 and 7

PART 2

Function description: Convert a given string into an acronym and output it. Use tooManyWords in the **app.js**

The function should perform the following:

When the parameter passed function is an empty string or the data type is not a string, output the

following "Cannot complete request" and nothing else happens

Given a string, you must convert string to its acronym

An acronym is an abbreviations formed from the initial letters of words

• The generated acronym should be in uppercase

• Assume that only spaces are the only character that will split words

Output the acronym using the following format

• "X stands for Y"

X being the newly created acronym and Y being the phrase they submitted

Example of successfully function calls

tooManyWords("Too Many Words");

 // TMW stands for Too Many Words

tooManyWords("OMG,.It's Test Day");

 // OITD stands for OMG. It's Test Day

tooManyWords("It's not T-shirt season anymore");

 // INTSA stands for It's not T-shirt season anymore

tooManyWords("supercalifragilisticexpialidocious");

 // S stands for supercalifragilisticexpialidocious

tooManyWords("");

 // Cannot complete request

DELIVERABLES

Save your JavaScript file and submit it to Lea in the Assignment section. NO need of ZIP file.

Your submission should contain the following document(s):

1. app.js