Objective: Functions

Important Notice:

The deadline for the submission of the code for project-2 is 22nd November, 2013 23:59. You should submit your C source file to the following e-mail addresses before deadline.

Group A: bil200a@gmail.com
Group B: bil200b@gmail.com
Group C: bil200c@gmail.com

Source code should be entitled as IDNUMBER_PROJ2.c. (If the ID number is 11111111111, then the name of the file should be 11111111111_PROJ2.c)

Source code should also include NAME SURNAME and PROJECT NUMBER on its first line as a comment line as following:

/* YOURNAME YOURSURNAME PROJ2 */

Each source code should be expressed in details by comment lines!

PROJECT 2: (Functions)

This project is constructed by the combination of 5 functions which are defined as following.

MENU FUNCTION:

This function asks user to enter a string message with maximum 30 characters including space character.

Then it asks the parameter for choosing one of the following 4 functions.

It calls the chosen function.

If chosen function returns a value, menu function prints that return value on the screen.

After execution of the chosen function it asks user whether or not she/he wants to exit from the program.

If she/he does not want to exit from the program, function calls itself.

Otherwise function exits from the program.
**REPEAT FUNCTION:**

Function gets the string message that is entered at the menu function as its input argument.

It computes the length of the string message without using any function in `string.h` library.

Then it repeats the string message on the screen as many as the value of the computed length.

**FUNCTION FOR NUMBER OF UPPERCASE LETTERS:**

Function gets the string message that is entered at the menu function as its input argument.

It returns the number of uppercase letters in the string message.

Function assumes that the input string message does not include the letters which are not in the English alphabet.

**FUNCTION FOR AVERAGE NUMBER OF LETTERS PER WORD:**

Function gets the string message that is entered at the menu function as its input argument.

It returns the average number of letters per word.

The return value should be a floating point number.

Punctuation marks and spaces should not be included to the words at the calculation.

**FUNCTION FOR THE MOST REPEATED LETTER:**

Function gets the string message that is entered at the menu function as its input argument.

It returns the most repeated letter in the string message.

Punctuation marks and spaces should not be counted.

Function should be uppercase-lowercase insensitive.

The return value should the lowercase version of the most repeated letter.
All functions should be designed without using `string.h` library.

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