

Multiplication/division/string manipulation

The formula for converting a Fahrenheit to a Celsius temperature is

$$C = (5/9) * (F - 32)$$

Using the Windows32 framework (Windows64 framework for 64bit users), write a complete 80x86 assembly language program for the following task:

Program prompts and accesses four Fahrenheit temperatures (with four separate input dialog boxes) and calculates and displays the corresponding four Celsius temperatures with the average Celsius temperature in one output message box.

Step1: read 4 Fahrenheit temperatures, with 4 separate input dialog boxes;

Step2: compute the corresponding 4 Celsius temperatures;

Step3: compute the average of the 4 Celsius temperatures;

Step4: manipulate strings and display the output in one output message box, i.e.,

Fahrenheit temperatures:	F1	F2	F3	F4
Celsius temperatures :	C1	C2	C3	C4
Average C temperature :	C5			

Use the following test input (Fahrenheit temperatures) for the submission:

70, 80, 90, 100

You may use any looping instructions if you like to, but not necessarily.

Submission:

Include a global documentation in the code, i.e., at least program description (what it does), what are input and output, etc. , and submit:

hard copy of the listing file (.lst file) and run time output (screen shot of the output message box) – please do not edit or write output by hand.