EE103 Introduction to Programming Homework Assignment #3

Due Date: Nov 18, 2014 (11:59pm)

In this homework, you are going to write a program that prints a list of temperature values in Celcius, Fahrenheit and Kelvin formats.

Your program should ask for the values of 3 variables (Min_Celcius, Step_size, Num_Lines) using printf & scanf commands. As illustrated in the example below, the program should display temperature values with Celcius values starting form Min_Celcius, increment its value by Step_size and do this for Num_Lines times. For each Celcius value, corresponding Fahrenheit and Kelvin values are also displayed. After the list is printed your program should not exit and it should start over once again. If a Celcius value less than -273 is entered the program should gracefully exit with a proper message.

Save and submit your program as instructed in the cms.iyte.edu.tr site.

Example: When the values Min_Celcius=0, Step_size=5, Num_Lines=6 are entered in the command line the program should print lines similar to the following:

>Enter Minimum Celsius Value, Step Size, Number of Lines:

>0, 5, 6 >	Celsius	Fahrenheit	Kelvin
>			
>	0	(?)	(?)
>	5	(?)	(?)
>	10	(?)	(?)
>	15	(?)	(?)
>	20	(?)	(?)
>	25	(?)	(?)

> Enter Minimum Celsius Value, Step Size, Number of Lines:

>-300, 0, 0

> Thanks for using this program...Exiting now...

Of course, (?) values should be calculated and printed by your program.

Hint: Use "**for** loop" for calculating and displaying temperature values, use a "**while** loop" to create an infinite loop that can be broken when the Celsius<273 condition is met.

Note: The solution should be your own individual work.