An-Najah National University
Department of Computer Engineering
Microprocessors (10636322)

Assignment # 1 (ILO 1)

1- Write a valid assembly macro that takes one operand named *number* and prints the smallest *positive* integer *n* for which 1+2+3+. . . +n is at least equal to number.
Use the macro in a complete valid code.
Note: the result can be 2-digit number.

2- Write an assembly procedure that has:
(1) an array of byte sized values passed through a pointer register
(2) an 8-bit register that tells the size of the array.
The procedure should replace the contents of each cell with the sum of the contents of all the cells in the original array from the left end to the cell in question. Thus, for example, if the array passed to the function looks like this:

5	2	9	3	7

then when the function returns, the array will have been changed so that it looks like this:

5	7	16	19	26

Use the procedure in a complete valid code.

Notes:
1- you are asked to show all the results to the teacher assistant
2- the values should be entered from the keyboard

Deadline: 22/07/2023

Good Luck