Coding Test 26-08-2021

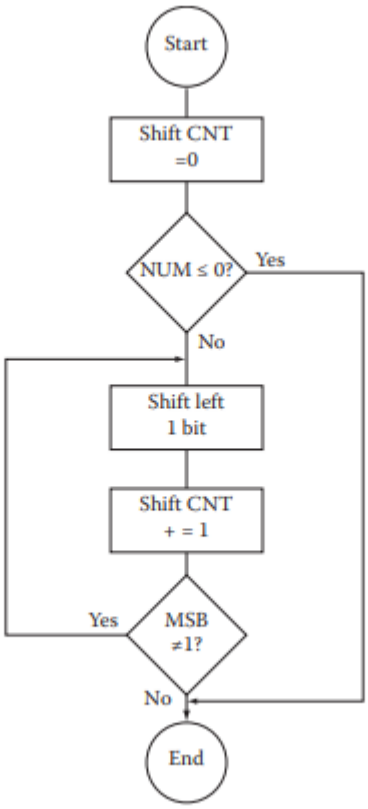
Submission must be done in the .pdf format and the name of the pdf should be <your roll>_<your name>.pdf (Ex. If your name is Hari and Roll 18EE35022 then the submission file should be named 18EE35022_Hari.pdf).

The submission file must contain the screen shot of complete Debug screen with the code and the register output values for each answer.

The name of the Asm File (.s) should be in the format of <your roll>_<question no>.s (Ex. If your roll is 18EE35022 and writing code for question number 2 then the Asm File should be named 18EE35022_2.s).

Time: 11:00 AM to 12:00 PM. The submission time is hard deadline and it won't be extended at any cost.

1. Write an assembly language code to calculate the GCD between two positive integers n (90) and m (XY, where XY is the last two digits of your roll number). (10 marks)
2. Fibonacci series f = 1,1,2,3,5,8,13…. where nth sequence f(n) = f(n-1)+f(n-2). Write an assembly language code, for given two numbers n (0x08) and m (0x05). Calculate the following sum (10 marks)
   y = (n+m)th sequence of Fibonacci series + (n-m)th sequence of Fibonacci series
3. Write an assembly language code for normalization as per the given flow chart (10 marks)



CNT: count
NUM: input number (0x25)