Assembly Language  HW#2 ( Due: April 7 )

• Write a program that clears the screen, locates the cursor near the middle of the screen, prompts the user for entering three integers, (say \( n \), \( f \), and \( g \)), where the \( n \) is in between 1 and 10, and the \( f \) and \( b \) are in between 0 and 15. (Ignore the cases that the users enter the numbers outside the specified ranges. You will need to handle it in the next homework assignment).

• Pass the three numbers, \( n \), \( f \), and \( b \), through “stack” to a display procedure which will use \textit{nested loops} to display characters ‘A’ in foreground color \( f \) and background \( b \) inside a triangle area of height \( n \), starting from a random location on the screen. See the example in the next page.
  
  – Note1: The \( f \) and \( b \) are color numbers which are from 0 to 15
  – Note2: Use GetMaxXY procedure to determine the current size of the console window so that your triangle area will not fall out of the screen.

• Please hand-in the report with following items
  1. the source code listing
  2. The captured screens of three results with different \( n \) entered.
  3. Dump the content of stack to show the parameters that you pushed.
  4. Your comments on the source code and the results.
Example

Please enter n:  4
Please enter foreground color f:  4
Please enter background color b:  9

Please enter n:  7
Please enter foreground color f:  1
Please enter background color b:  9