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;Write a program that a string from the user and display each word in new line
diagonally from upper left towards bottom right in a clear screen. If the string is
"Programming in Assembly Language is Fun", it shoud be displayed as
;Programming
             in
              Assembly
                       Language
                                is
                                  Fun
.MODEL SMALL
.STACK 64
.DATA
MSG DB "ENTER A STRING: ", OAH, ODH, "$"
STR DB 50, ?, 50 DUP(0)
.CODE
MOV AX,@DATA;
MOV DS,AX
MOV AH,09H
LEA DX,MSG
INT 21H
;MAIN PROGRAM
MOV CX,00H
MOV DX,00H
MOV AH,0AH
LEA DX,STR
INT 21H
MOV AX,0003H
INT 10H
LEA DI,STR
AGAIN: MOV AH,02H
MOV DL, [DI+2]
CMP DL, 20H
JE T2
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T1: MOV DL,[DI+2]

INT 21H INC CL JMP T3

T2: MOV DL, 0AH
INT 21H
INC DH
MOV BH,00H
MOV DL,CL
INT 10H

T3: INC DI CMP [DI+2],0DH JNE AGAIN MOV AH,4CH

INT 21H END