**;Write an assembly language program that takes a string (having 24 characters at max.) from the user and display each character at the center of each line.**

**.MODEL SMALL**

**.DATA**

**STRLEN DB 24**

**STRSZ DB ?**

**STR DB 24 DUP('$')**

**STRTRM DB '$'**

**.STACK**

**.CODE**

**MAIN PROC FAR**

**MOV AX, @DATA**

**MOV DS, AX**

**;; READING STRING**

**LEA DX, STRLEN**

**MOV AH, 0AH**

**INT 21H**

**;; CLEARING THE SCREEN**

**MOV AH, 00H**

**MOV AL, 03H**

**INT 10H**

**;; DISPLAYING IN THE CENTER**

**;; SETTING CURSOR POSITION**

**LEA SI, STR**

**MOV CH, 00**

**MOV CL, STRSZ**

**MOV DX, 00H**

**L1: MOV BH, 00H**

**MOV DL, 40**

**MOV AH, 02H**

**INT 10H**

**;; DISPLAYING IN CURSOR POSITION**

**MOV DL, [SI]**

**MOV AH, 02H**

**INT 21H**

**INC DH**

**INC SI**

**LOOP L1**

**;; ENDING THE PROGRAM**

**MOV AX, 4C00H**

**INT 21H**

**MAIN ENDP**

**END MAIN**