



New Era University

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Direction: Using your computer, construct an assembly language program that will show the output given below. After you successfully run your program, write the codes on the space provided.

Program that will accept upper and lowercase letters and will show the next character.

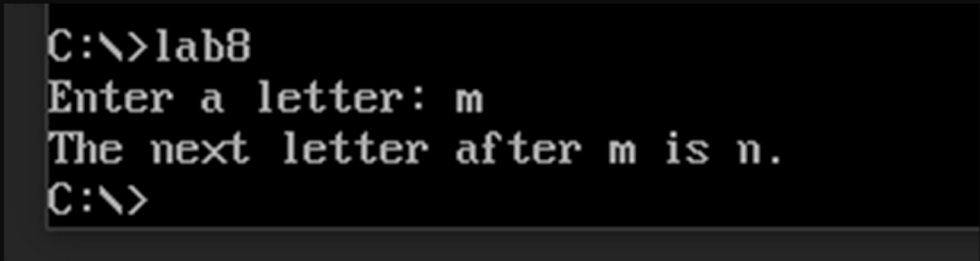
OUTPUT 1:

Enter a letter: **m**
The next letter after **m** is **n**.

Enter user's name and will display the following:

OUTPUT 2:

Enter your name : **Marcus**
Roses are red.
Violets are blue.
Sugar is sweet as you are, **Marcus!**

CODE (lab8.asm)
<pre>TITLE lab8.ASM DOSSEG .MODEL SMALL .STACK 0100h .DATA Q DB 'Enter a letter: \$' A DB 0Ah, 0Dh, 'The next letter after \$' verb DB ' is \$' X DB 0 .CODE MOV AX, @DATA MOV DS, AX MOV AH, 09h MOV DX, OFFSET Q INT 21h MOV AH, 01h ;request for character input INT 21h MOV AH, 09h MOV DX, OFFSET A INT 21h MOV X, AL MOV AH, 02h MOV DL, X INT 21h MOV AH, 09h MOV DX, OFFSET verb INT 21h INC AL MOV X, AL MOV AH, 02h MOV DL, X INT 21h MOV AH, 02h MOV DL, '.' INT 21h MOV AX, 4C00h INT 21h END</pre>
OUTPUT (lab8.asm)


CODE (lab8_2.asm)	
<pre>TITLE LAB8_2.ASM DOSSEG .MODEL SMALL .STACK 0100h .DATA NEYM DB 09h, ?, 08h DUP ('\$') Q DB 'Enter your Name: \$' A1 DB 0Ah, 0Dh, 'Roses are red.\$' A2 DB 0Ah, 0Dh, "Violets are blue.\$" A3 DB 0Ah, 0Dh, "Sugar is sweet as you are, \$" .CODE MOV AX, @DATA MOV DS, AX MOV AH, 09h MOV DX, OFFSET Q INT 21h MOV AH, 0Ah ; request for string input MOV DX, OFFSET NEYM ; load address INT 21h MOV AH, 09h MOV DX, OFFSET A1 INT 21h MOV DX, OFFSET A2 INT 21h MOV DX, OFFSET A3 INT 21h MOV DX, OFFSET NEYM+2 INT 21h MOV AH, 02h ; this is only for the position of ! MOV BH, 00h MOV DH, 18h MOV DL, 1Eh INT 10h MOV AH, 02h MOV DL, '!' INT 21h MOV AX, 4C00h INT 21h END</pre>	
OUTPUT (lab7_2.asm)	