;Write a program that takes a string and count the no of vowels in the string. Display the count in decimal format.

TITLE VOWEL IN A STRING
.MODEL SMALL
.DATA
STRLEN DB 80
STRSZ DB ?
STR DB 81 DUP('\$')
.STACK
.CODE

MAIN PROC FAR MOV AX, @DATA MOV DS, AX

;; GETTING THE NUMBER LEA DX, STRLEN MOV AH, 0AH INT 21H

;; CALCULATING THE NUM OF WORD MOV AX, 00 MOV CH, 00 MOV CL, STRSZ LEA BX, STR

L2: CMP BYTE PTR[BX], 'a'
JE AD
CMP BYTE PTR[BX], 'e'
JE AD
CMP BYTE PTR[BX], 'i'
JE AD
CMP BYTE PTR[BX], 'o'
JE AD
CMP BYTE PTR[BX], 'u'
JE AD

CMP BYTE PTR[BX], 'A'
JE AD
CMP BYTE PTR[BX], 'E'
JE AD
CMP BYTE PTR[BX], 'I'
JE AD
CMP BYTE PTR[BX], 'O'
JE AD
CMP BYTE PTR[BX], 'U'
JE AD
JMP EX

AD: INC AX EX: INC BX

## LOOP L2

;; CONVERTING TO DECIMAL MOV CX, 00 MOV BX, 10

L3: MOV DX, 00
INC CX
DIV BX
CMP AX, 00
PUSH DX
JG L3

;; PRINTING IN DECIMAL ;; NEW LINE CHARACTER MOV AH, 02H MOV DL, 0AH INT 21H

DIS: POP DX OR DX, 30H MOV AH, 02H INT 21H LOOP DIS

;; ENDING PROGRAM MOV AH, 4CH INT 21H MAIN ENDP

**END MAIN**