**;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**