```asm
print macro arg
    lea dx,arg
    mov ah,09h
    int 21h
endm

data segment
    str1 db 0ah,0dh,"Enter the string:$"
    str2 db 30 dup(?)
    char db 'a','e','i','o','u','$'
    str4 db 0ah,0dh,"Number of vowels=$"
    str5 db 0ah,0dh,"Number of consonants=$"
    len dw ?
    no dw ?
data ends

assume cs:code,ds:data
code segment
start:  mov ax,data
        mov ds,ax
        print str1
        lea si,str2
        mov cx,00
        mov dx,00
a1:     mov ah,01h
        int 21h
        cmp al,13
        jz a2
        mov [si],al
        inc si
        inc cx
        mov len,cx
        jmp a1
a2:     lea si,str2
a3:     lea di,char
        mov al,[si]
        l1:mov bl,[di]
          mov bh,00h
          mov ah,00h
          cmp ax,bx
          jz true
          inc di
          mov bl,'$'
          cmp [di],bl
          jnz l1
          mov bl,' '
          cmp [si],bl
          jz m
m1:     inc si
        loop a3
        mov no,dx
        print str4

                mov cx,00h
                mov ax,no
                mov bx,0ah
                 k1:mov dx,0000h
                    div bx
                    push dx
```

```
                inc cx
                cmp ax,0000h
                jnz k1
            k2:pop dx
                add dx,30h
                mov ah,02h
                int 21h
                loop k2
        print str5
        mov ax,len
        mov bx,no
        sub ax,bx
        mov no,ax
                mov cx,00h
                mov ax,no
                mov bx,0ah
                  k3:mov dx,0000h
                    div bx
                    push dx
                    inc cx
                    cmp ax,0000h
                    jnz k1
                k4:pop dx
                    add dx,30h
                    mov ah,02h
                    int 21h
                    loop k2
        jmp exit
m:      mov bx,len
        dec bx
        mov len,bx
        jmp m1
true:   inc dl
        inc si
        jmp a3
exit:   mov ah,4ch
        int 21h

code ends
end start
```

Output

Enter the string:hello world

Number of vowels=3
Nuumber of consonants =7