```
assume cs:code, ds:data
data segment
   msg1 db 0ah, 0dh, "Enter 1st number: $"
   msg2 db 0ah, 0dh, "Enter 2nd number: $"
   msg3 db 0ah, 0dh, "The product is: $"
data ends
code segment
readnum macro msg
   local num, next
   lea dx, msg
   mov ah, 09h
   int 21h
   mov bx, 0
    num:
        mov ah, 01h
       int 21h
       cmp al, 0dh
       jz next
        mov ah, 0
        sub al, 30h
        push ax
        mov ax, 0Ah
       mul bx
        pop bx
        add bx, ax
        jmp num
   next:
        push bx
endm
start:
   mov ax, data
   mov ds, ax
   readnum msg1
   readnum msg2
    pop bx ; num2 is popped from stack into bx
    pop ax ; num is popped from stack into ax
    mul bx ; dx:ax = (ax)*(bx)
    push ax ; push ax (result) into stack
   lea dx, msg3
```

```
mov ah, 09h
   int 21h
   pop ax ; read back result from stack
   mov cx, θ ; set counter to θ
   mov dx, 0 ; clear dx to 0
   mov bx, 0Ah; set divisor to 10d
   divide:
       div bx ; (dx)(ax)/(bx) quotient in ax, remainder in dx
       push dx ; push remainder in dx to stack
       mov dx, 0 ; clear dx
       inc cx ; increment count
       or ax, ax ; repeat till quotient not 0
       jnz divide
    print:
       pop dx ; pop the remainder from stack
       add dl, 30h; convert to ASCII for printing
       mov ah, 02h
       int 21h
       loop print
   mov ah, 4ch
   int 21h
code ends
end start
```