Assignment 1

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include 'emu8086.inc'

.model small

.code

start:

print 'length'

printn

mov ah,01h

int 21h ; stored length in al register

mov ah,0

sub al,'0'

mov cx,ax ; keep ax in cx for controlling loop

mov dx,ax ; keep ax in dx as the value of ax will change

printn

mov bx,0

input:

mov ah,01h ; collecting input

int 21h ; stored in al

mov [2000+bx],al ; here starting memory location is 2000

inc bx ; changing the memory location by increasing bx

loop input

printn

mov cx,dx ; copy loop number in cx from dx

mov bx,0

output:

mov dl,[2000+bx] ; collect input from memory location

mov ah,02h ; stored in dl

int 21h

inc bx

loop output

end start