Assignment 3

include 'emu8086.inc'

.model small

.code

start:

print 'length'

printn

mov ah,01h

int 21h ; stored length number in al register

mov ah,0

sub al,'0'

mov cx,ax ; copy ax value in cx for controlling loop

mov dx,ax ; keep loop number in dx as ax and cx will change

printn

mov bx,0

input:

mov ah,01h

int 21h ; stored in al

cmp al,97 ; comparing input with 'a'

jb skp

cmp al,122 ; comparing input with 'z'

ja skp

sub al,32 ; as the difference of lower and upper case is 32

skp:

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

inc bx ; changing memory location by increasing bx

loop input

printn

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

mov bx,0

output:

mov dl,[2000+bx] ; collecting numbers from memory location

mov ah,02h ; stored in dl

int 21h ; output number from dl

inc bx

loop output

end start