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Code:

.model small

.stack 100h

.data

string1 db 'Enter a string: $'

evenstring db 'Your string is even in length.$'

oddstring db 'Your string is odd in length.$'

string db 50 dup('$')

slen dw 0

.code

main:

mov ax, @data ;load the data section

mov ds, ax ;load ax into data segment register

lea dx, string1 ;ask user for a string

mov ah, 9 ;service call to display a string

int 21h ;call DOS to do the operation

lea si, string ;load starting address of string into si

repeat:

mov ah, 1 ;promt user for string

int 21h ;call DOS to do the operation

cmp al, 13 ;if enter is pressed jump to enterkey

je enterkey

mov [si], al ;mov the letter into si

inc si ;increment si for next letter

inc slen ;increment slen for count of length of string

loop repeat ;repeat untill enter key is pressed

enterkey:

mov ax, slen ;to divide slen/bl

mov bl, 2 ;to check if count is divisible by 2

div bl ;ax/bl

cmp ah, 0 ;compare remainder with 0

je evencase ;if ah=0 then jump to evencase

lea dx, oddstring ;if count is odd then display it

mov ah,9 ;service call to display a string

int 21h ;call DOS to do the operation

mov ah, 4ch ;return control to OS

int 21h ;call DOS to do the operation

evencase:

lea dx, evenstring ;if count is even then display it

mov ah, 9 ;service NO. to display a string

int 21h ;call DOS to do the operation

mov ah, 4ch ;return control to OS

int 21h ;;call DOS to do the operation

end main