**1. Write a program in assembly language to take a single-digit integer from the user**

**and print it on the screen.**

**//CODE//**

org 100h

;display message"enter a digit:"

mov dx, offset msg\_input

mov ah, 09h

int 21h

;read single line character from the user

mov ah,01h

int 21h

mov bl,al

;check the character

cmp al, '0'

jl notdigit

cmp al, '9'

jg notdigit

;print the message

mov dx, offset msg\_output

mov ah, 09h

int 21h

;print entered digit

mov dl, bl

mov ah,02h

int 21h

jmp endprogram

;if the given data is not valid the it show error

notdigit:

mov dx, offset msg\_error

mov ah,09h

int 21h

;terminate the program

endprogram:

mov ah,4ch

int 21h

msg\_input db 'Enter a digit: $'

msg\_output db 0dh, 0ah, 'The entered digit is: $'

msg\_error db 0dh, 0ah, 'Error: Not a digit! $'

end

**//OUTPUT//**

**A computer screen with a black screen

Description automatically generated**

**2. Write a program in assembly language to take two single-digit integers from the**

**user and print the result of subtraction on the screen.**

//**CODE//**

**//OUTPUT//**

A computer screen with a black screen

Description automatically generated