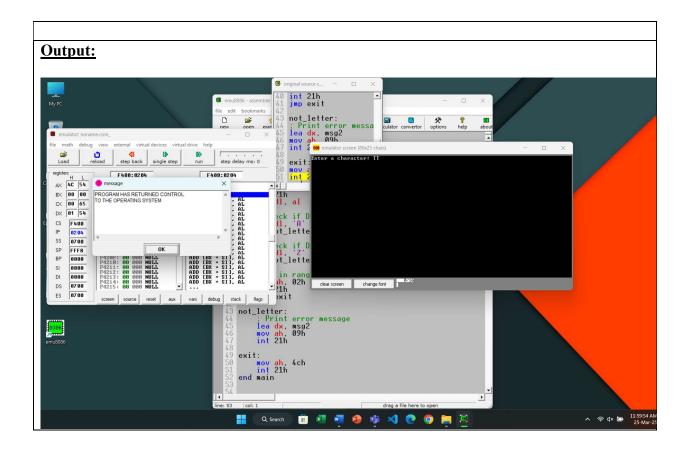
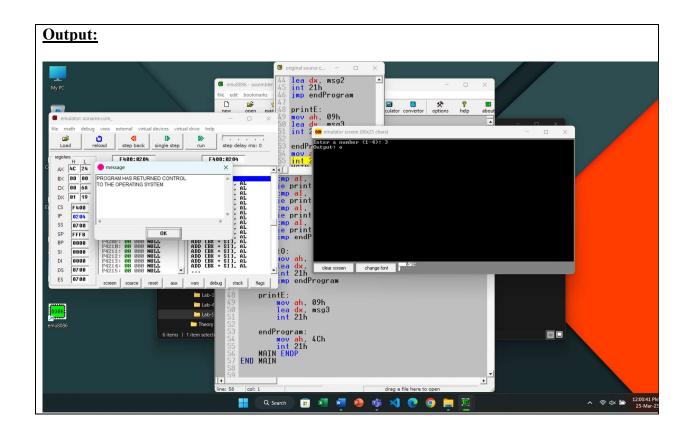
Task-1:

```
.model small
.stack 100h
.data
  msg1 db 'Enter a character: $'
  msg2 db 13, 10, 'Character is not a letter (A-Z).$'
.code
main:
  mov ax, @data
  mov ds, ax
  ; Prompt user
  lea dx, msg1
  mov ah, 09h
  int 21h
  ; Read a character into DL
  mov ah, 01h
            ; Character entered now in AL
  int 21h
  mov dl, al; Move it to DL for checking
  ; Check if DL \ge 'A'
  cmp dl, 'A'
  jl not_letter; If less than 'A', jump to not_letter
  ; Check if DL <= 'Z'
  cmp dl, 'Z'
  jg not_letter; If greater than 'Z', jump to not_letter
  ; If in range, print character
  mov ah, 02h
  int 21h
  jmp exit
not letter:
  ; Print error message
  lea dx, msg2
  mov ah, 09h
  int 21h
exit:
  mov ah, 4ch
  int 21h
end main
```



```
Task-2:
.MODEL small
.STACK 100h
.DATA
  msg1 db "Enter a number (1-4): $"
 msg2 db 0Dh, 0Ah, "Output: o$"
 msg3 db 0Dh, 0Ah, "Output: e$"
.CODE
  MAIN PROC
    mov ax, @DATA
    mov ds, ax
    ; Display message to ask for input
    mov ah, 09h
    lea dx, msg1
    int 21h
    ; Take input from user
```

```
mov ah, 01h
    int 21h
    mov al, al ; AL already has the input
    sub al, 30h; Convert ASCII to number
    ; Compare AL to decide output
    cmp al, 1
    je printO
    cmp al, 3
    je printO
    cmp al, 2
    je printE
    cmp al, 4
    je printE
    jmp endProgram
 printO:
    mov ah, 09h
    lea dx, msg2
    int 21h
    jmp endProgram
 printE:
    mov ah, 09h
    lea dx, msg3
    int 21h
  endProgram:
    mov ah, 4Ch
    int 21h
  MAIN ENDP
END MAIN
```



Task-3: .MODEL small .STACK 100h .DATA box DB '*********', 0Dh, 0Ah DB '********, 0Dh, 0Ah, '\$' .CODE MAIN PROC MOV AX, @DATA MOV DS, AX

; Display the box MOV DX, OFFSET box MOV AH, 09h INT 21h

; Exit program MOV AH, 4Ch INT 21h

MAIN ENDP END MAIN

Output:

