

Computer Organization and Architecture

LAB ASSIGNMENT – 6

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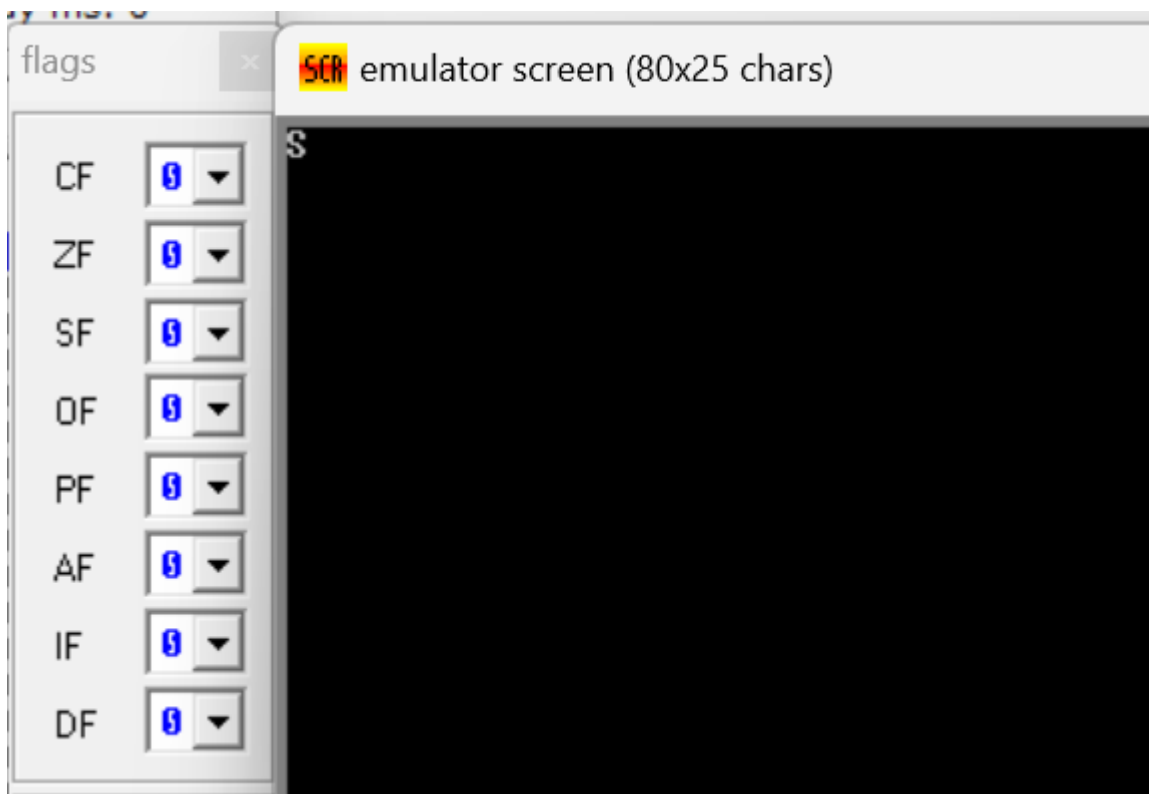
CSE – F

1. (a) Write a program in assembly language to print single character on screen.

Code:

```
org 100h  
mov dl, 'S'  
mov ah, 02h  
int 21h  
; Terminate the program  
mov ah, 4Ch  
int 21h
```

Output:

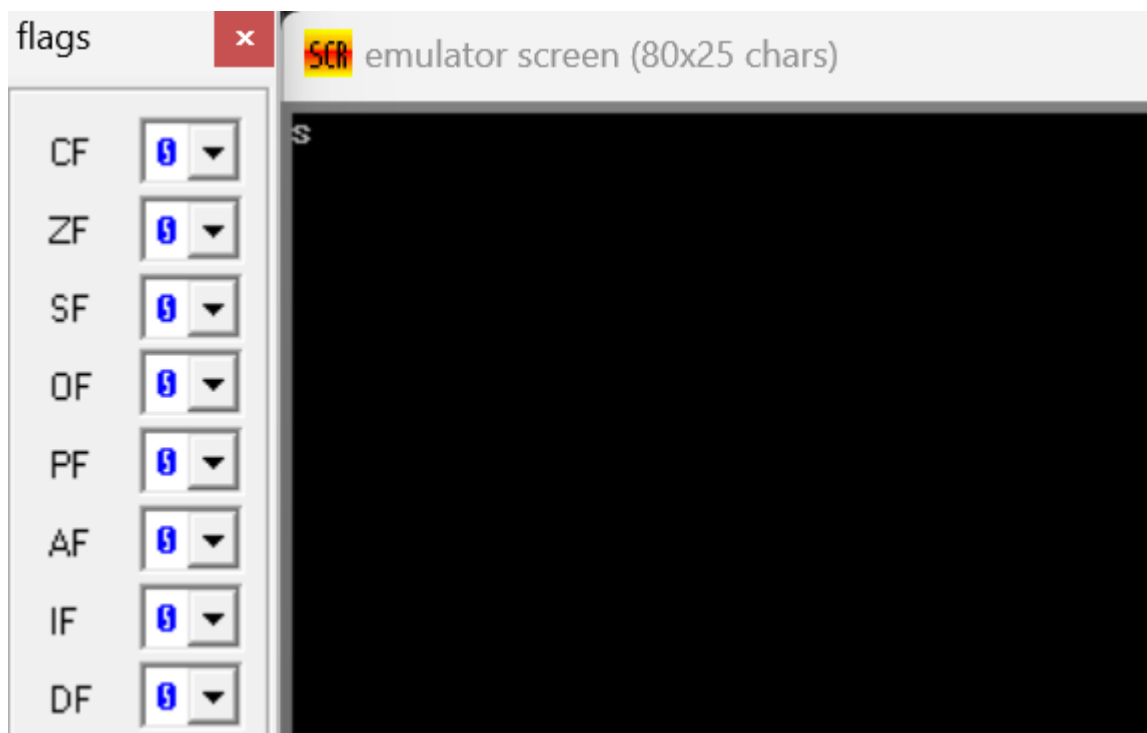


1. (b) Write an assembly language program to convert an upper-case letter to the corresponding lower-case letter.

Code:

```
org 100h  
mov al, 'S'  
; Convert to lower-case by adding 32 (20h)  
add al, 20h ; Add 32 to ASCII value  
mov dl, al  
mov ah, 02h  
int 21h  
; Terminate the program  
mov ah, 4Ch  
int 21h
```

Output:



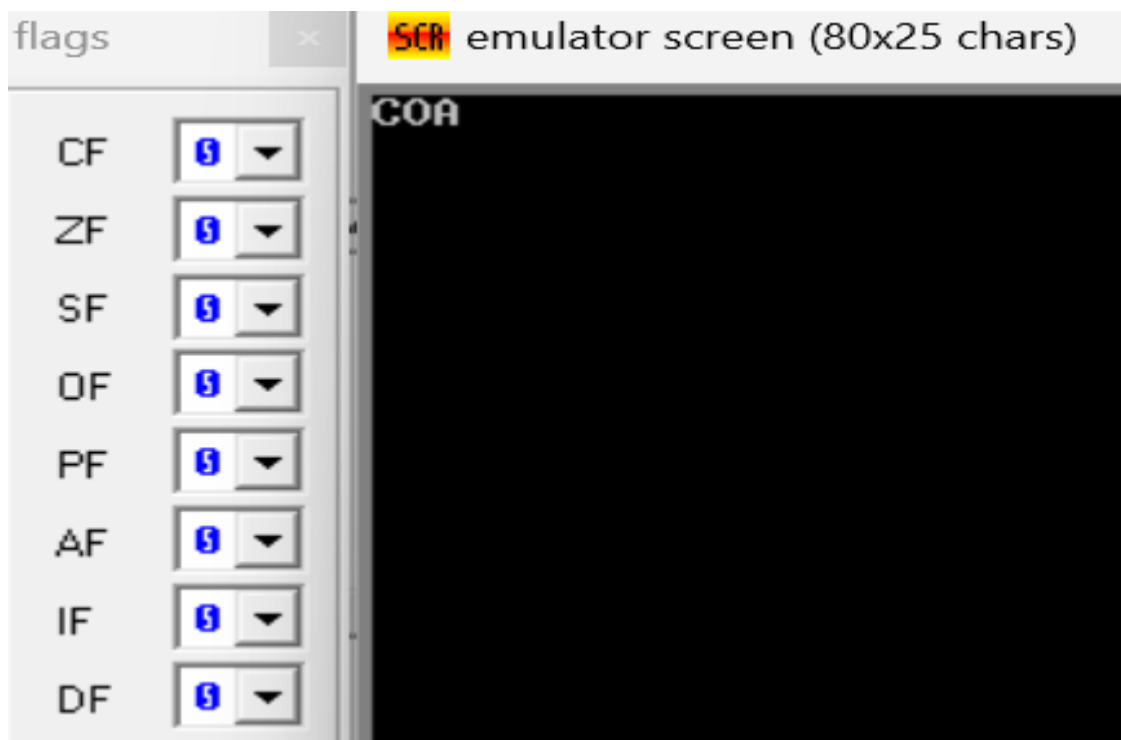
Practice set:

2. (a) Write a program in assembly language to print multiple characters on screen.

Code:

```
org 100h  
  
jmp start  
  
msg: db "COA", 0Dh, 0Ah, 24h  
  
start:  
  
    mov dx, msg  
  
    mov ah, 09h  
  
    int 21h  
  
    mov ah, 0  
  
    int 16h  
  
ret
```

Output:



2. (b) Write an assembly language program to convert a lower-case letter to the corresponding upper-case letter.

Code:

```
org 100h  
  
mov al,'s'  
  
; Convert to upper-case by subtracting 32 (20h)  
  
sub al,20h ; Subtract 32 to get the corresponding upper-case letter  
  
mov dl,al  
  
mov ah,02h  
  
int 21h  
  
; Terminate the program  
  
mov ah,4Ch  
  
int 21h
```

Output:

