Lab - 9

Program to Read the current time from the System and display it in the Standard format on the screen:

Program >>

```
.model Small

display  macro msg
          lea dx, msg
          mov ah, 09h
          int 21h
Endm

.data
time str db 0020H dUP(?)
msg1  db " Current Time : : $"

.code
Start:  mov ax, @data
        mov ds, ax

; clear the screen
        mov ah, 00h
        mov al, 03h
        int 10h

; set a Particular Location For dynamic clock
Ag:     mov bh, 00h
        mov dh, 01h
        mov dl, 01h
        mov ah, 02h
        int 10h
```

```
mov si , offset Timestr  ; Lea si, timestr
mov ah, 2ch              ; interrupt for getting system Time
int 21h
mov al, ch               ; ch = hours , CL = min dh = sec
AAM                      ; ch have the value 10 ---> 0100 = Ax
add ax, 3030H            ; Ax = 31 30 --> AH = 31H and AL = 30h
mov [si] , ah            ; Timestr [00] = 31 --> will be displayed as 1
inc si
mov [si] , al            Timestr = 30 --> --> will be displayed as 0
inc si
mov [si], byte ptr ':' ; displayed on the screen is 10
inc si
mov al, cl
AAM
Add ax, 3030h
mov [si] , ah
inc si
mov [si] , al
inc si
mov [si], Byte PTR ':'
inc si

mov al, dh
AAM
add Ax, 3030h
mov [si] , ah
inc si
mov [si], al
inc si
mov [si], byte PTR '$' ; to indicate end of time string
Display msg1
Display Timestr          ; Display time ...
```

```
; Check for the Keyboard status...
; If key is pressed, Terminate the program....

        mov ah, 0bh
        int 21h
        cmp al, 00h
        je Ag

Final : mov ah, 4ch
        int 21h

End Start
```