Name- Vedika Dalmia , USN-1BM19CS181

MP-MC LAB PROG 8

Date 17/11/20
Page

Read current time from the system and display it in the standard format on the screen

```
.MODEL SMALL

DISPLAY MACRO MSG
        LEA DX, MSG
        MOV AH, 09H
        INT 21H
ENDM

.DATA
TIMESTR DB 020H 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=HOUR, CL=MINUTES, DH=SECOND
AAM ; Convert to unpacked BACD format → AAM is
      used and CH reg contains 10
ADD AX, 3030H ; AX = 31 30 ---> AH=31H and AL=30H
MOV [SI], AH ; TIMESTR[00]=31 --> displayed as 1
INC SI
MOV [SI], AL ; TIMESTR[01]=30 --> displayed as 0
INC SI
MOV [SI], BYTE PTR ':' ; displayed on screen now
                         as 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
; Check for 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
```