TASMIYA FATHIMA

1BM19CS172

Date :

⇒ Program to read the 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
```

M T W T F S S

COMPASS

Date :

```
MOV SI, OFFSET TIMESTR ; LEA SI, TIMESTR
MOV AH, 2CH ; Interrupt for getting system Time
INT 21H

MOV AL, CH ; CH = hour, CL = minute, DH = second
AAM; Convert to unpacked BCD format -- AAM is
     used AND CH contains 10 → 01 00

ADD AX, 3030 ; AX = 31 30 → AH = 31H & AL = 30H

MOV [SI], AH ; TIMESTR[00] = 31 → will be displayed
                                  as 1
INC SI
MOV [SI], AL ; TIMESTR[01] = 30 → will be displayed
INC SI                            as 0
MOV [SI], ~~AL~~ BYTE PTR ':' ; Displayed on the
INC SI                          screen now is 10:

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 the end
                          of the time string
DISPLAY MSG1
DISPLAY TIMESTR       ; Display the 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, 4CH1
       INT 21H
END   START
```