JOEL NINAN JOHNSON
IBM19CS199

17/11/2020

LAB PROGRAM - 7

Q. DISPLAY SYSTEM TIME

A.

```
• MODEL SMALL
DISP MACRO MSG
     LEA DX, MSG
     MOV AH, 09H
     INT 21H
• DATA
TIMESTR DB 020H DUP (?)
MSG1 DB "CURRENT TIME:: $"

• CODE
START: MOV AX, @DATA
       MOV DS, AX
; CLEAR THE SCREEN
       MOV AH, 06H
       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
       MOV AH, 2CH  ; INTERRUPT TO GET SYSTEM TIME
       INT 21H
       MOV AL, CH   ; CH = HOURS
       AAM
       ADD AX, 3030H
```

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```
MOV [SI], AH
INC SI
MOV [SI], AL
INC SI
MOV [SI], BYTE PTR ':'
INC SI
MOV AL, CL      ; CL = MINUTES
AAM
ADD AX, 3030H
MOV [SI], AH
INC SI
MOV [SI], AL
INC SI
MOV [SI], BYTE PTR ':'
INC SI
MOV AL, DH      ; DH = SECONDS
AAM
ADD AX, 3030H
MOV [SI], AH
INC SI
MOV [SI], AL
INC SI
MOV [SI], BYTE PTR '$'
DISP MSG1
DISP TIMESTR
; CHECK FOR KEYBOARD STATUS & TERMINATE PROGRAM
MOV AH, 0BH
INT 21H
CMP AL, 00H
JE AG
FINAL : MOV AH, 4CH
INT 21H
END START
```