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1BM19CS187 '3D' Batch 2

Date: 17/11/2020

LAB - 8

;Program :: 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
```

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```
;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 ; LEASI, TIMESTR
MOV AH, 2CH     ; INTERRUPT for getting systemtime
 INT 21H
MOV AL, CH      ; CH = HOUR, CL = MINUTES,
                                DH = SECOND
```

AAM ; Convert to unpacked BACD format -- AAM is used and CH Contains 10

```
AAD 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[01] = 30 --> will be displayed as 0   ;
INC SI
MOV [SI], BYTE PTR ':' ; Displayed on the screen now is 10:
INC SI


MOV AL, CL
AAM
ADD AX, 3030H
MOV [SI], AH
INC SI
```

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```
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 '$'
DISPLAY MSG1
DISPLAY TIMESTR
; 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
```