3D Batch-1 Varsha. S 1BM19CS179 Date 17/11/2020

Expt. No. Lab - 10 Page No.

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

```
.MODEL SMALL

DISPLAY MACRO MSG1
        LEA DX, MSG1
        MOV AX, 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
```

Teacher's Signature :

```
; SET A PARTICULAR LOCATION FOR DYNAMIC CLOCK
AG1 :   MOV BH, 00H
        MOV DH, 01H
        MOV DL, 01H
        MOV AH, 02H
        INT 10H

        MOV SI, OFFSET TIME STR; LEASI TIME STR
        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 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
        AOD AX, 3030H
        MOV [SI], AH
        INC SI
```

Expt. No. _____ Date _____

Page No. _____

Teacher's Signature : _____

```
        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
```