

Expt. No. _____

LAB- 8

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

• MODEL SMALL

DISPLAY MACROMSG

LEA DX, MSG

MOV AH, 09H

INT 21H

EDDM

• 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
DYNAMICCLOCK

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A6: MOV BH, 00H
    MOV DH, 01H
    MOV DL, 01H
    MOV AH, 02H
    INT 10H

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```

    MOV SI, OFFSET TIMESTR; LEA SI, TIMESTR
    MOV AH, 2CH           ; INTERRUPT
                           ; FOR GETTING
                           ; SYSTEM TIME

```

```

    INT 21H.

```

```

    MOV AL, CH

```

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; CH = HOUR,
; CL = MINUTES,
; DH = SECOND.

```

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    AAM; CONVERT TO UNPACKED BCD FORMAT
    --AAM IS USED AND CH CONTAINS 10

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    ADD AX, 3030H      ; AX = 31 30 -> AH = 31H
                        ; AND AL = 30H

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```

    MOV [SI], AH

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; TIMESTR[00] = 31
--> WILL BE DISPLAYED
AS 1

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    INC SI

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```

    MOV [SI], AL

```

```

; TIMESTR[01] = 30
--> WILL BE DISPLAYED
AS 0

```

```

    INC SI

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MOV [SI], BYTE PTR ':' ; DISPLAYED ON
THE SCREEN NOW
INC SI 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
END OF THE
TIMESTRING

DISPLAY MSG 1

DISPLAY TIMESTR ; DISPLAY THE
TIME

; CHECK FOR THE KEYBOARD STATUS...

; IF KEY IS PRESSED, TERMINATE THE PROGRAM

MOV AH, 0BH

INT 21H

CMP AL, 0DH

JE AG

FINAL : MOV AH, 4CH

INT 21H

END START

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