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LAB-10

URBAN
EDGE

; 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

; 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; LEA SI, TIMESTR

MOV AH, 2CH; Interrupt for getting system time.

INT 21H

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MOV AL, CH; CH=HOUR, CL=MINUTES,
DH=SECOND

AAM; Convert to unpacked BCD format--
AAM is used and CH contains 10

ADD 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

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

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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