

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

END

• 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 EH, 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

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

AAM ; CONVERT TO UNPACKED BCD FORMAT
-- AAM IS USED AND CH CONTAINS
THE VALUE 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, 0H

AAM

ADD AX, 3030H

MOV [SI], AH

INC SI

INC SI

MOV [SI] BYTE PTR '\$'; TO INDICATE
END OF THE TIME STRING

DISPLAY MSG1

DISPLAY TIMESTR ; DISPLAY THE TIME ---

; 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

IN + 214

END START