

READ & DISPLAY SYSTEM TIME

.MODEL SMALL

DISPLY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

.DATA

TIME STR DB 020H DUP (?)

MSG1 DB "CURRENT TIME :: \$"

.CODE

START:

MOV AX, @DATA

MOV DS, AX

MOV AH, 00H ; CLEAR SCREEN

MOV AL, 03H

INT ~~21H~~ 10H

AG: ; SET A particular location

MOV BH, 00H

MOV DH, 01H

MOV DL, 01H

MOV AH, 02H

INT 10H

MOV SI, OFFSET TIMESTR

MOV AH, 2CH ; INTERRUPT TO GET SYSTEM TIME

INT 21H

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

AAM ; CONVERT TO UNPACKED BCD FORMAT

ADD AX, 3030H ; AX = 31 30 → AH = 31H, AL = 30H
MOV [SI], AH ; TIMESTR[00] = 31 → IS DISPLAYED AS 1
INC SI
MOV [SI], AL ; TIMESTR[01] = 30 → IS DISPLAYED AS 0
INC SI
MOV [SI], BYTE PTR ':' ; '10:' IS DISPLAYED
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
INC SI
MOV [SI], BYTE PTR '\$' ; TO INDICATE END OF TIME STR
DISPLAY MSG1
DISPLAY TIMESTR ; DISPLAY TIME

MOV AH, 0BH

INT 21H

CMP AL, ~~0BH~~ 00H

JE AG

FINAL:

MOV AH, 4CH

INT 21H

END START