

17/11/20 Lab 7, Sudeshna Bhushan, 18M19CS189

Q. ; 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 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

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

AAM ; CONVERT TO UNPACKED BCD FORMAT -- AAM

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

MOV [SI], AH ; TIMESTR[00]=31 --> WILL BE DISPLAYED

INC SI

MOV [SI], AL ; TIMESTR[01]=30 --> WILL BE DISPLAYED

INC SI

MOV [SI], BYTE PTR ':' ; DISPLAYED ON THE  
SCREEN NOW IS 10:

INC SI

IS  
USED  
AND  
CH  
CONTAIN  
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, 0H

AAM

ADD AX, 3030H

MOV [SI], AH

INC SI

MOV [SI], AL

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

INT 21H

END START

— X —