

LAB7 (Program to read current time & Display)

• MODEL SMALL

DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

• DATA

TIMESTR DB 020H DUPC(?)

MSG1 DB "CURRENT TIME:: \$"

• CODE

START: MOV AX, @DATA

MOV DS, AX

• MOV DH, 00H ; CLEARING SCREEN

MOV AL, 03H

INT 10H

AG: MOV BH, 00H

MOV DH, 04H

MOV DL, 01H

MOV AH, 02H

INT 10H

MOV SI, OFFSET TIMESTR ; LEN: TIMESTR

MOV AH, 2CH ; INTERRUPT FOR GETTING SYSTEM TIME

INT 21H

MOV AL, CH ; CH = HOURS, CL = MIN, DH = SECONDS

DAAM, convert unpacked in Packed BCD

Fantastic

ADD AX, 3030H ; AX = 31 30 → AH = 31H & 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 SCREEN as 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, 0FH

AAM

ADD AX, 3030H

MOV [SI], AH

INC SI

MOV [SI], AL

INC SI

MOV [SI], BYTE PTR '\$'

DISPLAY MSG

DISPLAY TINESTR

• CHECK FOR KEYBOARD SITIVE
 • IF KEY is pressed / Terminate program

MOV AH, 0BH

INT 21H

CMP AL, 0DH

JF AG

FINAL : MOV AH, 4CH

INT 21H

END START