LAB5

```
.model small

Display macro msg
        Lea DX, msg
        MOV AH, 09h
        int 21h
ENDM

.data
msg1   db  0dh, 0AH, "enter the first string$"
msg2   db  0dh, 0AH "enter the second string $"
msg3   db  0dh, 0AH "length of the first string...$
msg4   db  0dh, 0AH, "length of the second string$
msg5   db  0dh, 0ah "....strings are equal..$
msg6   db  0dh, 0ah"...strings aren't equal...$
string1  db 80H  DUP(?)
string2  db 80H  DUP(?)

.code
        start:   MOV ax, @data
                 MOV ds, ax
                 display msg1
                 MOV SI, offset string1
                 call readstr
                 MOV BL, CL
                 display msg2
                 mov SI, offset string2
                 Call readstr
                 push BX
                 push CX
        display msg3
        mov al, bl
        call len-dis
        pop cx
        pop Bx
        cmp cl, Bl
        JNE fail
        MOV SI, offset string1
        mov di, offset string2
        CLD

CHK :   mov al, [Si]
        cmp AL, [DI]
        JNE Fail
        iNC SI
        inc di
        dec cl
        JNZ ChK
        display msg5
        JMP final

Len-dis   PROC near
      xor Ah, Ah
      add Al, AH
      AAM
      Add AX, 3030h
      mov bh, al
      mov dl, ah
      MOV ah, 02h
      int 21h
      mov DL, BH
      Mov ah, 02h
```

```
        int21
   Ret
   len-disp  endp
   readstr   proc  near
             xor  cl,cl

   Back  :  Mov ah,01H
             int  21h
            cmp al,0dh
            JE Finish
            Mov  [SI],Al
            inc  SI
            inc cl
            JMP back

   Finish :   Mov [SI], Byte ptr '$'
            Ret

   readstr ENDP

   Fail : display msg6

   Final  :  MOV   AH,4ch
             int   21H

   END   start
```

WAP to display the system Time.

.Model small
.code

hours, Mins, Seconds

```
MOV AH, 2CH
int 21H
```

→ H = CH this
M = CL step
S = DH does this

```
MOV AL, CH
AAM
MOV BX, AX
call disp
MOV DL, ':'
MOV AH, 02H
INT 21H

MOV AL, CL
AAM
MOV BX, AX
CALL DISP
MOV DL, ':'
MOV AH, 02H
INT 21H
```

~~MOV AL, DH~~
~~AAM~~
~~MOV BX, AX~~
~~CALL DISP~~
~~MOV DL, ':'~~
~~MOV AH, 02H~~
~~INT 2H~~

```
MOV  AL,DH
AAM
 MOV BX,AX
Call DISP

MOV AH,4CH
int 21H

 disp proc near
 MOV  DL,DH
 add DL,30H
 MOV ,AH, 02H
 int  21H
MOV   DL,BL
ADD  DL,30H
 MOV   ah,02h
int 21h
 RET
 DISP Endp
 END
```