03/11/20 Lab 7

1 ⇒ Read two strings, store them in of locati & check if equal & also find length.

```
.model small
display macro msg
        lea dx, msg
        mov ah, 09h
        int 21h
endm
.data
msg1 db 0dh, 0ah, "Enter 1st string $"
msg2 db 0dh, 0ah, "Enter 2nd string $"
msg3 db 0dh, 0ah, "Len of 1st string $"
msg4 db 0dh, 0ah, "Len of 2nd string $"
msg5 db 0dh, 0ah, "Strings equal $"
msg6 db 0dh, 0ah, "Strings Not 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
       push bx
       push ax
```

```
mov bl, cl
display msg2
mov si, offset string2
call readstr
push bx
push cx
display msg3
mov al, bl
call hex_dis
display msg4
mov al, cl
call hex_dis
pop cx
pop bx
cmp cl, bl
jne fail
mov si, offset string1
mov di, offset string2
cld
chk: mov al, [si]
     mov al, [di]
     jne fail
     inc si
     inc di
     dec cl
```

```
        jmz chk
        display msg5
        jmp final
len dis proc near
        mov ah, ah
        add al, 00h
        aam
        add ax, 3030h
        mov bh, al
        mov dl, ah
        mov ah, 02h
        int 21h
        mov dl, bh
        mov ah, 02h
        int 21h
ret
len dis endp
readstr proc near
        mov 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 msg 6
final : mov ah, 4ch
        int 21h
end start
```

Q→ Read the current time from the system and display in standard format.

```
.model small
.code
    mov ah, 2ch
    int 21h

    mov al, ch
    aam
    mov bx, ax
    call disp
    mov dl, 20h
    mov ah, 02h
    int 21h
```

```
mov al, cl
aam
mov bx, ax
call disp
mov dl, 20h
mov ah, 02h
int 21h

mov al, dh
aam
mov bx, ax
call disp

mov ah, 4ch
int 21h

disp proc near
mov dl, bh
add dl, 30h
mov ah, 02h
int 21h
mov dl, bl
add dl, 30h
int 21h
ret
disp endp
end
```