

**SSN College of Engineering**  
**Department of Computer Science and Engineering**  
**III year - UCS1512 – Microprocessors Lab**

Academic Year: 2020 -2021  
Semester: V

Batch: 2018-2022

**Experiment No. 11: System date and time**

11a) System date

**Program**

```
assume cs:code,ds:data
data segment
    day db 01 dup(?)
    month db 01 dup(?)
    year db 02 dup(?)
data ends
code segment
    org 0100h
start: mov ax,data
        mov ds,ax

        ;system date
;INT 21h /AH=2Ah - get system date;
;return: CX= year (1980-2099).DH= month. DL= day of week (00h=Sunday)

        mov ah,2ah
        int 21h

mov si,offset day
mov [si],dl

mov si,offset month
mov [si],dh

mov si,offset year
mov [si],cx

        mov ah,4ch
        int 21h
        code ends
end start
```

11b) System time

```
assume cs:code,ds:data
data segment
    hour db 01 dup(?)
    minute db 01 dup(?)
    second db 02 dup(?)
data ends
code segment
    org 0100h
start: mov ax,data
       mov ds,ax

; INT 21h/AH=2Ch- get system time;
;return:CH= hour. CL= minute. DH= second

       mov ah,2ch
       int 21h

mov si,offset hour
       mov [si],ch

mov si,offset minute
       mov [si],cl

mov si,offset second
       mov [si],dh

       mov ah,4ch
       int 21h
       code ends
end start
```