**PRACTICAL – 31**

**AIM:** Design an 8086 microprocessor based system with input device getting input from memory address starting from 2000 h to 2009 h. Three LEDs (common cathode): LED-1(Green) at D0 bit, LED-2 (Yellow) at D3 bit and LED-3 (Red) at D6 bit of the output device connected at I/O mapped address 01h. Write an assembly program to take data from input device,

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**CODE:**

org 100h

mov cx,03h

mov [2000h],45h

mov [2001h],10h

mov [2002h],51h

mov SI,2000h

l1:

cmp [SI],50h

js digit

cmp [SI],0A0h

js Digit1

mov ax,100

out 199,ax

inc SI

loop l1

digit:

inc SI

mov ax,1

mov 199,ax

loop l1

digit1:

inc SI

mov ax,10

out 199,ax

loop l1

ret

**OUTPUT:**

****

**CONCLUSION:** In this practical we learnt to take data from input device.