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## PRACTICAL - 31

<u>AIM:</u> 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,

```
Glow LED-1; if data <= 50H
LED-2; if 50H > data <= A0H
LED-3; if data > A0H.
Take data from input device at every 10 ms time.
```

## **CODE:**

org 100h

mov cx,03h

mov [2000h],45h

mov [2001h],10h

mov [2002h],51h

mov SI,2000h

11:

cmp [SI],50h

js digit

cmp [SI],0A0h

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CE258 -MPCO 20DCE019 js Digit1 mov ax,100 out 199,ax inc SI loop 11 digit: inc SI mov ax,1 mov 199,ax loop 11 digit1: inc SI mov ax,10 out 199,ax loop 11 ret

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## **OUTPUT:**



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

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