**Microprocessor and Interfacing**

**Lab Experiment-5**

**M.S.SANJAY**

**15BCE0517**

**Q1)Write an ALP to find the largest and smallest element in an array?**

Ans-

.model small

.stack 64

.data

a db 05h,02h,05h,06h,04h,03h

b db ?

.code

START:mov ax,@data

MOV DS,AX

MOV CL,06H

LEA bX,a

mov al,00h

mov ah,byte ptr[bx]

L1:CMP al,byte ptr[bx]

jnc l2

mov al,byte ptr[bx]

L2:CMP AH,byte ptr[bx]

jc L3

mov ah,byte ptr[bx]

L3:inc BX

dec cl

cmp cl,00h

jnz L1

Mov ah,4ch

int 21h

end start

end

Here AX register stores both the min and max number -AH holds the min value from the array-02h and AL holds the max value-06h

