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Experiment 8:

Aim: ALP to find minimum and maximum from a given array.

Code:

```

01 DATA SEGMENT
02 ARR DB 5,3,7,1,9,2,6,8,4
03 LEN DW $-ARR
04 MIN DB ?
05 MAX DB ?
06 DATA ENDS
07
08 CODE SEGMENT
09 ASSUME DS:DATA CS:CODE
10 START:
11     MOV AX,DATA
12     MOV DS,AX
13
14     LEA SI,ARR
15     MOV AL,ARR[SI]
16     MOV MIN,AL
17     MOV MAX,AL
18
19     MOV CX,LEN
20 REPEAT:
21     MOV AL,ARR[SI]
22     CMP MIN,AL
23     JL CHECKMAX
24
25     MOV MIN,AL
26 CHECKMAX:
27     CMP MAX,AL
28     JG DONE
29
30     MOV MAX,AL
31 DONE:
32     INC SI
33     LOOP REPEAT
34
35     MOV AH,4CH
36     INT 21H
37 CODE ENDS
38 END START
39

```

Output:

