

Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING



(Autonomous College Affiliated to the University of Mumbai) NAAC Accredited with "A" Grade (CGPA: 3.18)

Academic Year: 2022-2023

Name:	Prerna Sunil Jadhav
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Class:	T. Y. B.Tech (Computer Engineering)
Course:	Processor Organization and Architecture (POA)
Course Code:	DJ19CEL502
Experiment No.:	08

AIM: Assembly program to find minimum/ maximum no. from a given array.

CODE:

```
data segment
       arr db 5,3,7,1,9,2,6,8,4
       len dw $-arr min
       db?
       max db?
data ends
code segment
       assume ds:data cs:code
       start:
               mov ax,data mov
               ds,ax
               lea si,arr
               mov al,arr[si]
               mov min,al
               mov max,al
               mov cx,len
               repeat:
               mov al, arr[si]
               cmp min,al
               jl checkmax
               mov min,al
               checkmax:
               cmp max,al
               jg done
               mov max,al
               done:
               inc si
               loop repeat
               mov ah,4ch
               int 21h
       code ends
```

end start



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OUTPUT:

