A.Y. 2022-2023

PROCESSOR ORGANIZATION AND ARCHITECTURE AYUSH JAIN

COMPUTER ENGINEERING | TE - B2 | 60004200132

EXPERIMENT - 8

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

Code:

DATA SEGMENT
STRING1 DB 99H, 12H, 56H, 45H, 36H
DATA ENDS
CODE SEGMENT
ASSUME CS:CODE,DS:DATA
START: MOV AX,DATA
MOV DS,AX
MOV CH,04H
LEA SI,STRING1

MOV CL,[SI] MOV DL,[SI]

UP:MOV AL,[SI]
CMP AL,CL
JC DOWN
MOV CL,AL
DOWN: CMP AL,DL
JNC GO
MOV DL,AL

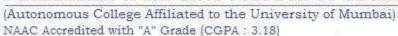
GO: INC SI DEC CH JNZ UP

CODE ENDS END START



Shri Vile Parle Kelavani Mandal's

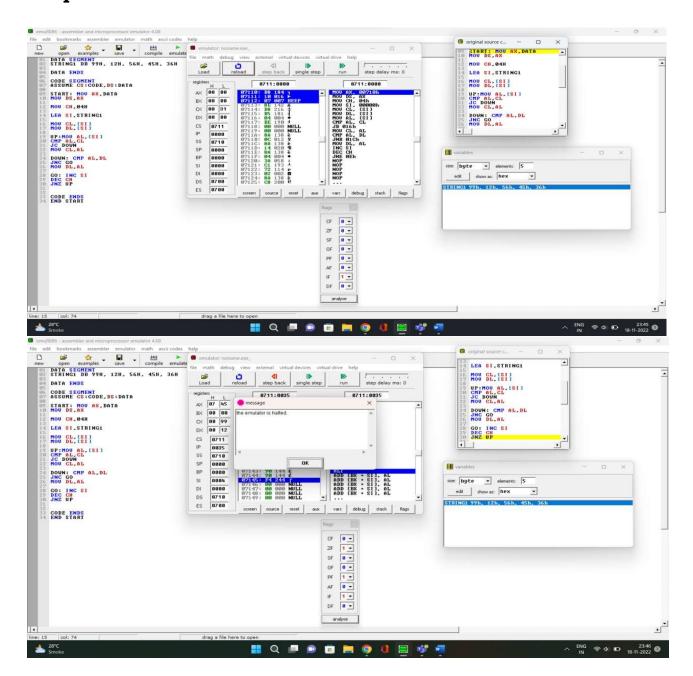
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Output:



Conclusion:

Write and emulate assembly program to find minimum/ maximum no. from a given array.