# Experiment 3

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Div/Batch:A/A1  Roll No.07

```
.MODEL SMALL
.STACK 100H
.DATA
    ARRAY DB 10, 25, 15, 40, 5, 30, 50, 20
    LEN EQU $ - ARRAY
    MIN DB 0
    MAX DB 0

.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX

    MOV SI, 0
    MOV AL, ARRAY[SI]
    MOV MIN, AL
    MOV MAX, AL

FIND_MIN_MAX:
    MOV AL, ARRAY[SI]
    CMP AL, MAX
    JG UPDATE_MAX
    CMP AL, MIN
```

JL UPDATE_MIN

JMP NEXT_ELEMENT

UPDATE_MAX:

MOV MAX, AL

JMP NEXT_ELEMENT

UPDATE_MIN:

MOV MIN, AL

NEXT_ELEMENT:

INC SI

CMP SI, LEN

JL FIND_MIN_MAX

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN

OUTPUT: