ECE 322 EMBEDDED SYSTEM

Lab :-6

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Roll N:-2021BEC0035 **DATE:** 06/02/2024

Submitted to - Della Ma'am

Aim:- 6(b) – Find minimum and maximum element of given array.

Code:

```
Registers
 Register
                                                                                       ; The semicolon is used to lead an inline documentation
                                                                                       ; Please fill the following before exam; ;;; Your Name: KARTHIK. B; AADITI. C; KARTHIK YT; ARAVIND K, HARSH G;;;; Student Number: 2021BEC0034, 2021BEC0036, 2021BEC0037, 2021BEC0035, 2021BEC0043;;; Program question: Finding Minimum and Maximum of the Array.
             0x00000000
                                                                                       ;;; Directives
             0x00000042
                                                                                                    PRESERVE8
                                                                                                     THUMB
                                                                                      ; Vector Table Mapped to Address 0 at Reset
             0x00000000
                                                                                      ; Linker requires __Vectors to be exported
        R9
             0×000000000
             0x00000000
                                                                                                    AREA RESET, DATA, READONLY EXPORT __Vectors
             0×00000000
             0x00000000
       R...
             0x20001000
                                                                                      __Vectors
                                                                                               DCD 0x20001000 ; stack pointer value when stack is empty
DCD Reset Handler ; reset vector
    Banked
                                                                                                    ALIGN
    System
    Internal
                                                                                      ;Your Data section
                                                                                 23
24
                                                                                      ;AREA DATA
;Max DCD 0
       Pri... Privileged
       St... MSP
St... 3300778
                                                                                 25
                                                                                      MaxP DCD Max
     Sec 0.27506483
                                                                                       MinP DCD Min
                                                                                      NUM1 DCD 3, -7, 2, -2, 10, 20, 30, 15, 32, 8, 64, 66
POINTER DCD NUM1
                                                                                  29
                                                                                      AREA MYRAM, DATA, READWRITE
Max DCD 0
                                                                                      Min DCD 0
                                                                                  33
                                                                                       ; Linker requires Reset Handler
                                                                                                  AREA MYCODE, CODE, READONLY
                                                                                                  ENTRY
                                                                                  39
                                                                                                  EXPORT Reset Handler
```

