

**Department of Computer Science and Engineering**

**21st Batch**

**Lab Report 7**

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| Course title | : Microprocessor and Assembly Language |
| Course Code | : CSE-334 |

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| **Submitted By** | | **Submitted To** | |
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| Signature | Submission date: 04-04-2022 |
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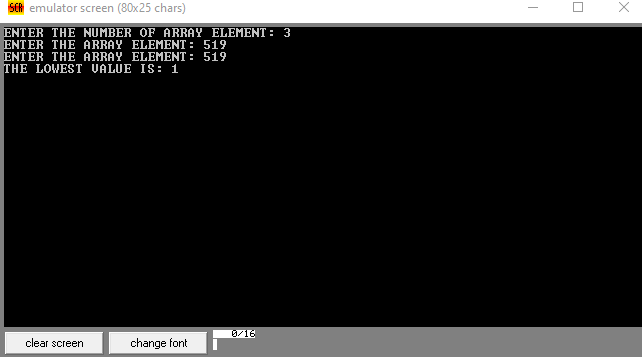
**Problem Statement:** Write am assembly program that will take some values from the user and put them in an array. Your task is to find the lowest value of those element and print the value afterward.

**Theory:** To Print if the lowest value from an array we will take the array element as the input while taking the inputs we will check the values for the lowest one and store the lowest value on a register which will be used later on to show the value at the end of the program.

**CODE:**

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| .MODEL SMALL  .STACK 100H  .DATA  NL EQU 0DH,0AH  ARR DB 100 DUP(?)  NIN DB "ENTER THE NUMBER OF ARRAY ELEMENT : $"  AIN DB NL,"ENTER THE ARRAY ELEMENT : $"  AOUT DB NL,"THE ARRAY ELMENTS ARE : $"  ALOW DB NL,"THE LOWEST VALUE IS : $"  VAR DB ?  .CODE  MAIN PROC  MOV AX,@DATA  MOV DS,AX    MOV AH,9  LEA DX,NIN  INT 21H  MOV AH,1  INT 21H  SUB AL,30H    XOR CX,CX  XOR BX,BX  MOV CL,AL  MOV VAR,AL    MOV AH,9  LEA DX,AIN  INT 21H  LEA SI,ARR  MOV AH,1  MOV BL,9  INPUT:  INT 21H  MOV ARR[SI],AL  SUB AL,30H  CMP AL,BL  JG NEXT  MOV BL,AL  NEXT:  INC SI  LOOP INPUT    MOV AH,9  LEA DX,AIN  INT 21H  MOV CL,VAR  LEA SI,ARR  MOV AH,2  OUTPUT:  MOV DL,ARR[SI]  INT 21h  INC SI  LOOP OUTPUT    MOV AH,9  LEA DX,ALOW  INT 21H    ADD BL,30H  MOV AH,2  MOV DL,BL  INT 21H    MOV AH,4CH  INT 21H  MAIN ENDP  END MAIN |

**Result:**

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