Module 2 - Exercises

1. Write a function which accept an array of integers and its size then return the **minimum** value of its elements. Test by calling them in main().

2. Write a C++ program that takes in *one user input argument* ***from the command line*** and checks if it is valid hexadecimal number or not, then displays the hexadecimal number to the console.
   - If the incorrect number of user input arguments is detected, the program must exit with an error
   - Hexadecimal values between 0x00 and 0xFF are valid, other values should be rejected
   - The letter "x" of number base can either be upper or lower case
   - The hexadecimal digits can only contain upper case characters.

   Example Run:

   ```
   ./a.exe 0xAB
   > Got valid hexadecimal value: 0xAB
   ```

3. Write a C++ program to
   a) Read a string from the console input, store the string in character array str. Then print out its all characters, separated by a space.
   b) Print 1.234 with 9-character width, padded by zeros.
   c) Print 1.234 with precision is 2 digits of fractional part (after decimal point).
   d) Read a hexadecimal value (preceded by 0x) into variable hex, then print out its decimal value and hexa form.

      Input: 0x10

      Output: 16 0x16