#### **SLIIT ACADEMY**

Higher Diploma in Information Technology Year 1, Semester 1



**Introduction to Programming(C++)** 

**Lecture 08 : Advanced Programming Techniques - Array Processing in C++ - II** 

Ruchira ManikkaArachchi

## **Intended Learning Outcomes**

End of this lecture you will be able to learn,

LO1 : Understand the concept of passing one-dimensional arrays as a parameter to functions .

LO2 : Understand the concept of passing two-dimensional arrays as a parameter to functions .



### One-dimensional Arrays as a Parameter to functions

- By default, arrays are passed to functions by reference. It is a good idea to pass arrays as **const reference parameters** if you want to assure that the functions will never change the values stored in the arrays.
- syntax for passing an array to a function in C++ is: functionName(arrayName);
- The following function signature accepts an array x as a reference parameter, and it also accepts the number of entries in the array (its



```
void displayValues (int x[], int size);
```

#### Two-dimensional Arrays as a Parameter to functions

 When passing a two-dimensional array to a function, you must specify the number of columns as a constant when you write the parameter type, so the compiler can pre-calculate the memory addresses of individual elements.

# Summary

- Passing one-dimensional arrays as a parameter to functions .
- Passing two-dimensional arrays as a parameter to functions.



