**Module 2: Use of Pointers and Addresses**

Learning outcome:

* To comprehend the use of addresses and pointers
* To compare the nature of arrays versus pointers in terms of location of address

Exercise 1: Array and Pointer

Declare an array to store a series of 12 numbers. Display in a table:

* + - * Index value
      * Content
      * Address

Declare a pointer based class/structure and assigned with a series of 12 numbers. Display in a table:

* + - * Index value
      * Content
      * Address

Observe the nature of addresses in both cases

Exercise 2: Array and Pointer

Write a C++ program that accepts five integer values. Then store the five values in an array using a pointer and print the elements of the array on the screen.

Exercise 3: Array and Pointer

Complete the following program to display address of elements of an array using both array and pointers.

#include <iostream>

using namespace std;

int main(){

float arr[5];

cout << "Displaying address using arrays: " << endl;

for (int i = 0; i < 5; ++i){

…

}

ptr = arr;

cout<<"\nDisplaying address using pointers: "<< endl;

for (int i = 0; i < 5; ++i){

….

}

return 0;

}