**Lab 17**

**Warm-up task:**

Complete the following task using arrays. For your convenience, you can take the array name as array + [part number]. E.g. for part 6, you may name your array as array6.

1. Declare an integer array of 10 element.
2. Declare and initialize an integer array of 5 numbers with following values 5, 4, 3, 4, 5
3. Declare and initialize an integer array of 5 numbers with following values 5, -5 (only two values)
4. Declare and initialize an array of 3 elements with following values 3.7, -1.2, 2.0
5. Declare and initialize an array of 100 elements with all values = 0.
6. In part 2, print the 2nd and 3rd elements of the array. What is the output?
7. In part 3, print the 1st and last elements of the array. What is the output?
8. In part 5, set the 1st and last elements value to 0 and 100.
9. In part 5, set the 1st and last elements value to 0 and 100.
10. In part 4, set all array elements to -1.0 using the index i.e. [] operator.

**Lab Task 1.**

**Program Name:** Copy array in reverse

**Program Purpose:** Using array

**Problem Statement:** Write a program to copy the contents of one array into another in the reverse order. The program should work for arrays of any size. (**HINT:** use a loop to copy elements of first array into the second.)

Steps:

Declare another array of same size

Copy last element of arr1 in first element of arr2, second last of arr1 into second of arr2 and so on…

arr2[0] = arr[4]

arr2[1] = arr[3]

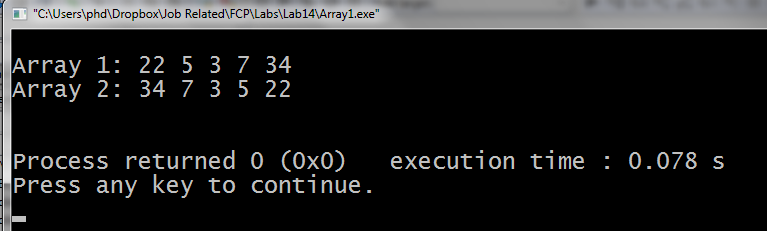
arr2[2] = arr[2]

arr2[3] = arr[1]

arr2[4] = arr[0]

**HINT:** there will be 2 counters in the loop. One increasing and other decreasing.

**Sample Output:**

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