



POO – Lab 2: C# Introduction

I. Array :

We define an array as following:

Type[] tab=new Type[n]

n is the length of the the array.

Example :

```
double[] note =new double[] {17.25,12,13};  
ou  
double[] note = {17.25,12,13};  
  
note.Length gives the length of the array note.
```

II. Function:

Exercise 1:

Write a function that takes two string as parameters and returns a string corresponding to their concatenation.

Exercise 2 :

1- Write the following functions :

sortT : sorts an array which is given as parameter.

reverseT : reverses an array which is given as parameter.

displayT: displays the elements in an array which is given in parameter.

2- Write a program that :

- 1) Asks for a number n.
- 2) Fills an array of n integers.
- 3) Displays the array .
- 4) Sorts the integers in the array (in ascending order).
- 5) Displays the array after sorting it.
- 6) Reverses the integers in the array.
- 7) Displays the array after sorting it.

Exercise 3: Try the following programs and discuss about them.

```
using System;

namespace abc
{
    class Program
    {
        public static void f1(ref string intro){
            intro="Hi";
            Console.WriteLine(intro);
        }
        public static void Main(string[] args)
        {
            string intro="hello";
            Console.WriteLine("before "+intro);
            f1(ref intro);
            Console.WriteLine("after "+intro);
            // TODO: Implement Functionality Here

            Console.Write("Press any key to continue . . . ");
            Console.ReadKey(true);
        }
    }
}
```

```
using System;

namespace abc
{
    class Program
    {
        public static void f1(string intro){
            intro="Hi";
            Console.WriteLine(intro);
        }
        public static void Main(string[] args)
        {
            string intro="hello";
            Console.WriteLine("before "+intro);
            f1(intro);
            Console.WriteLine("after "+intro);
            // TODO: Implement Functionality Here

            Console.Write("Press any key to continue . . . ");
            Console.ReadKey(true);
        }
    }
}
```