

## Assignment 2

### ■ Arrays and Strings

1. When to use String vs. StringBuilder in C# ?

If we want to modify or concatenate or perform other manipulations to a string multiple times, we are better to use a StringBuilder. Otherwise, it's better to use String.

2. What is the base class for all arrays in C#?

The Array class is the base class for all the arrays in C#. It is defined in the System namespace

3. How do you sort an array in C#?

use Array.Sort() to sort an array.

4. What property of an array object can be used to get the total number of elements in an array?

Length property.

5. Can you store multiple data types in System.Array?

Yes, by using object[] array = new object[n];

6. What's the difference between the System.Array.CopyTo() and System.Array.Clone()?

Array.CopyTo() copy the source array to destination while clone() copies the array and returns new objects. Array.CopyTo() starts copying from the given index of the new array to the end of the array while clone() copies all the content.