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

Since string is immutable, it’s good to store some sensitive data, such as username and password. String Builder is

mutable, usually it is used inside the method implementation, so that we can modify the text based on the needs ,

and convert the string builder into string once the operation finished.

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

Object class

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

Array.Sort() method

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

Array.Length property

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

If we create an object array, we are able to store multiple data types in an array

https://www.c-sharpcorner.com/UploadFile/955025/C-Sharp-interview-questions-part1/

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

System.Array.Clone() will return a shallow copy of the array. A shallow copy of an Array copies only the elements of

the Array, whether they are reference types or value types, but it does not copy the objects that the references refer

to. The references in the new Array point to the same objects that the references in the original Array point to.

System.Array.CopyTo() will copy all the elements of the current one-dimensional array to the specified one

dimensional array. This method copies all the elements of the current array instance to the destination array, starting

at index. The destination array must already have been dimensioned and must have a sufficient number of elements

to accommodate the copied elements. Otherwise, the method throws an exception.