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

-String : when we do not want to modify the stored string, just use it to perform some tasks

- StringBuilder: want to do **many modifications (append, insert, remove)** to avoid memory overhead.

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

- System.Array

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

- Array.Sort(arr)

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

an array?

-arr.Length

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

-Yes, but not recommended  
object[] mixed = { 1, "hello", true };

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

- CopyTo() - Copies elements **to an existing array** starting at an index

- Clone() - Returns a **shallow copy** of the entire array