Test your Knowledge

1. When to use String vs. StringBuilder in C# ?
   1. While working with the String class, every time you perform some operations on your string, you recreate the entire string in the memory over and over again, whereas StringBuilder allocates some buffer space in the memory and applies modifications into that buffer space.
   2. As the StringBuilder object is mutable, it provides better performance as compared to the String object when heavy string manipulations are involved.
   3. String operations use more memory as compared to StringBuilder because String creates intermediate garbage instances after each operation.
   4. String is in System namespace but StringBuilder is in System.Text namespace
2. What is the base class for all arrays in C#?
   1. The Array class is the base class for all the arrays in C#
3. How do you sort an array in C#?
   1. Array.Sort()
4. What property of an array object can be used to get the total number of elements in an array?
   1. Array.Length
5. Can you store multiple data types in System.Array?
   1. No, we cannot store multiple datatype in an Array, we can store similar datatype only in an Array.
6. What’s the difference between the System.Array.CopyTo() and System.Array.Clone()?
   1. CopyTo() require to have a destination array when Clone() return a new array.
   2. CopyTo() let you specify an index (if required) to the destination array.