04 Generics  
Test your Knowledge  
1. Describe the problem generics address.  
2. How would you create a list of strings, using the generic List class?

List<string> list = new List<string>();  
3. How many generic type parameters does the Dictionary class have?

Two generic type parameters contains in dictionary class. when you want to create a new dictionary, and you must declared two data type among the angle brackets. The first one is for key and second one is for value.  
4. ❌True/False. When a generic class has multiple type parameters, they must all match.  
5. What method is used to add items to a List object?

List.Add(); is used for add items to a List Object.

6. Name two methods that cause items to be removed from a List.

List.Remove() is used for removing the object in parameter in list.

List.Remove(int index); is used for removing the specific index of array.

7. How do you indicate that a class has a generic type parameter?

You can indicate a class has a generic type parameter by including the type parameter declaration in the class signature. The type parameter is represented by a placeholder name inside angle brackets following the class name.

8. ❌True/False. Generic classes can only have one generic type parameter.  
9. ✅True/False. Generic type constraints limit what can be used for the generic type.

Generic type constraints could be specified after the class name and using where key word. For example public T FindMax<T> (T[] arr) where T : IComparable<T>

10. ✅True/False. Constraints let you use the methods of the thing you are constraining to.