**04 Generics**

**Test your Knowledge**

1. Describe the problem generics address.

Generics allow us to design class and method but defer the specification of types until the class or method is declared and called. Generics help reduce code redundancy, keep type safety, avoid unwanted boxing.

1. How would you create a list of strings, using the generic List class?

GenericList<string> list1 = new GenericList<string>();

1. How many generic type parameters does the Dictionary class have?

Dictionary class have 2 generic type parameters: TKey and TValue

1. True/False. When a generic class has multiple type parameters, they must all match.

False

1. What method is used to add items to a List object?

List.Add() and List.AddRange() method

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

List.Remove() and List.RemoveRange() method

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

put <T> after class name

1. True/False. Generic classes can only have one generic type parameter.

False

1. True/False. Generic type constraints limit what can be used for the generic type.

True

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

False