Assignment 4 (Generics)

1. Describe the problem generics address.

Ans: Generics solves the problem of having to use loosely typed object.

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

Ans: List<string> stringList = new List<string>();

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

Ans: Dictionary<TKey,TValue> generic type has two type parameters, TKey and TValue

1. When a generic class has multiple type parameters, they must all match. Ans: False
2. What method is used to add items to a List object?

Ans: listObject.Add(T);

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

Ans:

1. listObject.RemoveAll();
2. listObject.RemoveAt(index);
3. How do you indicate that a class has a generic type parameter?

Ans: By convention, we use T to indicate a generic class.

1. Generic classes can only have one generic type parameter. Ans: False
2. Generic type constraints limit what can be use for the generic type. Ans: True
3. Constraints let you use the methods of the thing you are constraining to. Ans: False