**Lesson 4**

**Plan of the lesson**

Manage a group of associated data in a .NET Framework application by using collections. (Refer *System.Collections* namespace)

* *ArrayList* class
* Collection interfaces
* Iterators
* *Hashtable* class
* *CollectionBase* class and *ReadOnlyCollectionBase* class
* *DictionaryBase* class and *DictionaryEntry* class
* *Comparer* class
* *Queue* class
* *SortedList* class
* *BitArray* class
* [*Stack*](http://microsofteref.books24x7.com/viewer.asp?bkid=14336&destid=2400#2400) class

 Manage data in a .NET Framework application by using specialized collections. (Refer *System.Collections.Specialized* namespace)

* Specialized *String* classes
* Specialized *Dictionary*
* *NameValueCollection* class
* *CollectionsUtil*
* *BitVector32* structure and *BitVector32.Section* structure

 Improve type safety and application performance in a .NET Framework application by using generic collections. (Refer *System.Collections.Generic* namespace)

* Collection.Generic interfaces
* Generic *Dictionary*
* Generic *Comparer* class and Generic *EqualityComparer* class
* Generic *KeyValuePair* structure
* Generic *List* class, Generic List.Enumerator structure, and Generic *SortedList* class
* Generic *Queue* class and Generic Queue.Enumerator structure
* Generic *SortedDictionary* class
* Generic *LinkedList*
* Generic Stack class and Generic Stack.Enumerator structure