|  |  |  |  |
| --- | --- | --- | --- |
|  | ArrayList | Stack | Queue |
| Create | ArrayList() –  Initializes a new instance of the ArrayList class that is empty and has the default initial capacity. | Stack () –  Initializes a new instance of the stack class that is empty and has the default initial capacity. | Queue() –  Initializes a new instance of the Queue class that is empty, has the default initial capacity, and uses the default growth factor. |
| Delete | Remove(Object) –  Removes the first occurrence of a specific object from the ArrayList. | Pop () –  Removes and returns the object at the top of the stack. | Dequeue() –  Removes and returns the object at the beginning of the Queue. |
| Update | Add(Object) –  Adds an object to the end of the ArrayList. | Push (Object) –  Inserts an object at the top of the stack. | Enqueue(Object)-  Adds an object to the end of the Queue. |
| Read | Traverse through each item in the array and print it | Traverse through each item in the array and print it | Traverse through each item in the array and print it |

Generic Collections

|  |  |  |  |
| --- | --- | --- | --- |
|  | List | Stack | Queue |
| Create | List<type>  Creates a list of the specified datatype | Stack<type> creates an instance of stack with the specified datatype | Queue<type> creates an instance pf queue with the specified datatype |
| Delete | Remove(Object)  Removes the first occurrence of a specific object from the List | Pop(Object) deletes the first element from the top of the stack | Dequeue(Object) deletes the first element from the front of the queue |
| Update | Add(Object) Add an item to the end of the list | Push(Object) adds an item to the top of the stack | Enqueue(Object) Adds an item to the end of the queue |
| Read | Traverse through each item in the array and print it | Traverse through each item in the array and print it | Traverse through each item in the array and print it |