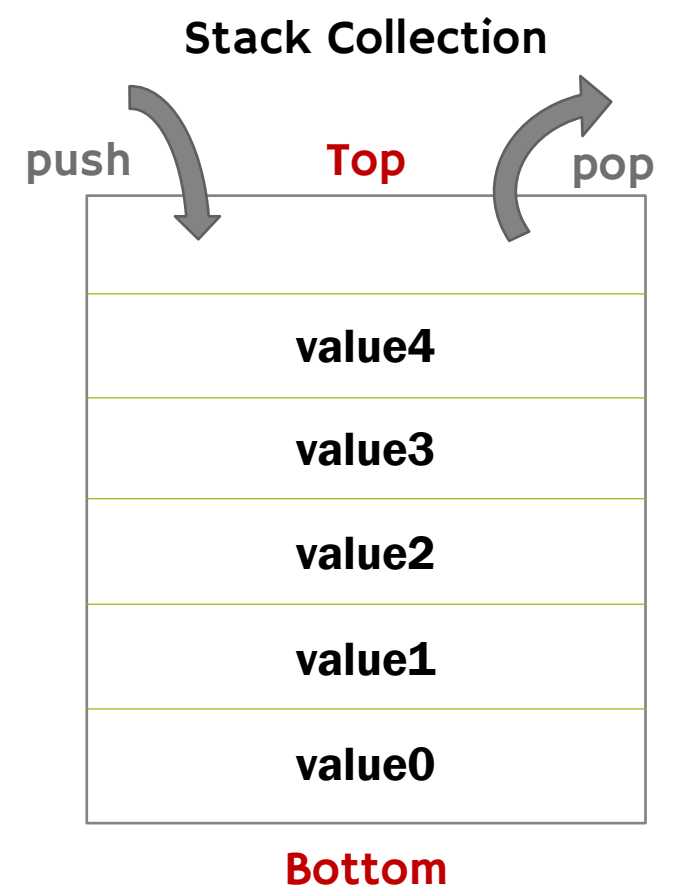


Stack

- › Stack collection contains a group of elements based on LIFO (Last-In-First-Out) based collection.
- › Full Path: `System.Collections.Generic.Stack`
- › It stores the elements in bottom-to-up approach.
 - › Firstly added item at bottom.
 - › Lastly added item at top.



'Stack' collection



```
Stack<T> referenceVariable = new Stack<T>( );
```



- › It is based on LIFO (Last-In-First-Out).
- › The "Stack" class is a generic class; so you need to specify data type of elements while creating object.
- › You can't access elements based on index.
- › You can add elements using 'Push' method; remove elements using 'Pop' method; access last element using 'Peek' method.
- › It is not index-based. You need to access elements by either using pop, peek or foreach loop.

Properties

› **Count** : Returns count of elements.

Methods

- › **void** Push(T) : Adds an element at the top of the stack.
- › **T** Pop() : Removes and returns the element at top of stack.
- › **T** Peek() : Returns the element at the top of the stack.
- › **bool** Contains(T) : Determines whether the specified element exists.
- › **T[]** ToArray() : Converts the stack as an array.
- › **void** Clear() : Removes all elements.