

It represents a last-in, first-out collection of objects. It is used when you need a last-in, first-out access of items. When you add an item in the list, it is called pushing the item, and when you remove it, it is called popping the item.

## Properties and Methods of the Stack Class

The following table lists some of the commonly used **properties** of the **Stack** class:

Property	Description
Count	Gets the number of elements contained in the Stack.

The following table lists some of the commonly used **methods** of the **Stack** class:

S.N	Method Name & Purpose
1	<b>Public Overridable Sub Clear</b> Removes all elements from the Stack.
2	<b>Public Overridable Function Contains <i>objAsObject</i> As Boolean</b> Determines whether an element is in the Stack.
3	<b>Public Overridable Function Peek As Object</b> Returns the object at the top of the Stack without removing it.
4	<b>Public Overridable Function Pop As Object</b> Removes and returns the object at the top of the Stack.
5	<b>Public Overridable Sub Push <i>objAsObject</i></b> Inserts an object at the top of the Stack.
6	<b>Public Overridable Function ToArray As Object</b> Copies the Stack to a new array.

## Example:

The following example demonstrates use of Stack:

```
Module collections
Sub Main()
```

```

Dim st As Stack = New Stack()
st.Push("A")
st.Push("M")
st.Push("G")
st.Push("W")
Console.WriteLine("Current stack: ")
Dim c As Char
For Each c In st
    Console.Write(c + " ")
Next c
Console.WriteLine()
st.Push("V")
st.Push("H")
Console.WriteLine("The next poppable value in stack: {0}", st.Peek())
Console.WriteLine("Current stack: ")
For Each c In st
    Console.Write(c + " ")
Next c
Console.WriteLine()
Console.WriteLine("Removing values ")
st.Pop()
st.Pop()
st.Pop()
Console.WriteLine("Current stack: ")
For Each c In st
    Console.Write(c + " ")
Next c
Console.ReadKey()
End Sub
End Module

```

When the above code is compiled and executed, it produces the following result:

```

Current stack:
W G M A
The next poppable value in stack: H
Current stack:
H V W G M A
Removing values
Current stack:
G M A

```

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