**Java Stack Class**

Stack is a subclass of Vector that implements a standard last-in, first-out stack.

Stack only defines the default constructor, which creates an empty stack. Stack includes all the methods defined by Vector, and adds several of its own.

Stack( )

Apart from the methods inherited from its parent class Vector, Stack defines the following methods −

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| **Sr.No.** | **Method & Description** |
| 1 | **boolean empty()**  Tests if this stack is empty. Returns true if the stack is empty, and returns false if the stack contains elements. |
| 2 | **Object peek( )**  Returns the element on the top of the stack, but does not remove it. |
| 3 | **Object pop( )**  Returns the element on the top of the stack, removing it in the process. |
| 4 | **Object push(Object element)**  Pushes the element onto the stack. Element is also returned. |
| 5 | **int search(Object element)**  Searches for element in the stack. If found, its offset from the top of the stack is returned. Otherwise, .1 is returned. |