Stacks

Stacks is a type of data structure which follows LIFO technique of storing data.

LIFO – Last In First Out: Basically in this method the last element entered in the stack is deleted or popped out from the stack first. The element that is entered first is popped out last.

Stack has 3 operations:

1. Push: First you need to check if the stack is empty or full. If the stack is empty push the element in the stack and assign that as the top of the stack. If the stack is full indicate the user about it. If the stack is not full push the element in the stack and assign that element as the top of the stack.

Pushing 2

Pushing 1

Empty Stack

2 Top

1

1 Top

1. Pop: First you need to check if the stack is empty. If the stack is empty then indicate the user about it. If the stack is not empty delete the last element pushed in the stack which is the topmost element in the stack.

Full Stack

All elements popped

4 Popped

4 Top

3 Top

3

2

2

1

1

1. Display: The stack is displayed from top to bottom.