📘 1. Stack – Data Structure

◆ **Definition:**

A **Stack** is a linear data structure that follows the **LIFO (Last In First Out)** principle.
 The last element inserted is the first one to be removed.

◆ **Main Operations:**

- **Push:** Add an element on top

- **Pop:** Remove the top element

- **Peek/Top:** View the top element without removing

- **isEmpty:** Check if the stack is empty

◆ **Time Complexity:**

- All operations: **O(1)**

◆ **Use Cases:**

- Undo operations

- Expression evaluation (infix to postfix)

- Recursion (function call stack)