🔥 Stack Implementation in C++ – Breakdown

1️⃣ Stack Concept (LIFO) 📏

1. A stack follows the Last In, First Out (LIFO) principle.
2. Think of it like a stack of plates 🍽️ — the last one placed is the first one removed.
3. 2️⃣ Defining the Stack & Variables 📌
4. #define MAX 10 → Sets the maximum size of the stack.
5. int stack[MAX] → Array to store stack elements.
6. int TOP = -1 → Tracks the last added element (initially empty).
7. 3️⃣ Push Function (Adding Elements) 🚀
8. Checks if the stack is full (TOP == MAX - 1), then prints "Stack is full".
9. If not full, increments TOP and stores the new element in stack[TOP].
10. 4️⃣ Taking Input & Storing in Stack ⌨️
11. User enters MAX (10) elements, which are pushed into the stack one by one.
12. 5️⃣ Printing the Stack Elements 🖨️
13. A loop runs from 0 to TOP, printing all stored elements in order.

6️⃣ Final Output 🎯

Displays all elements in the stack, confirming they were stored successfully! ✅

🚀 Now you can easily slay DSA with stacks! 🔥