11 . Write a C program to implement Stack operations such as PUSH, POP and PEEK

**Aim**

To write a C program that implements stack operations (**PUSH, POP, and PEEK**) using an array.

**Algorithm**

**1. PUSH(x)**

1. Check if top == MAX-1. If yes, Stack Overflow (cannot insert).
2. Else, increment top and insert the element at stack[top].

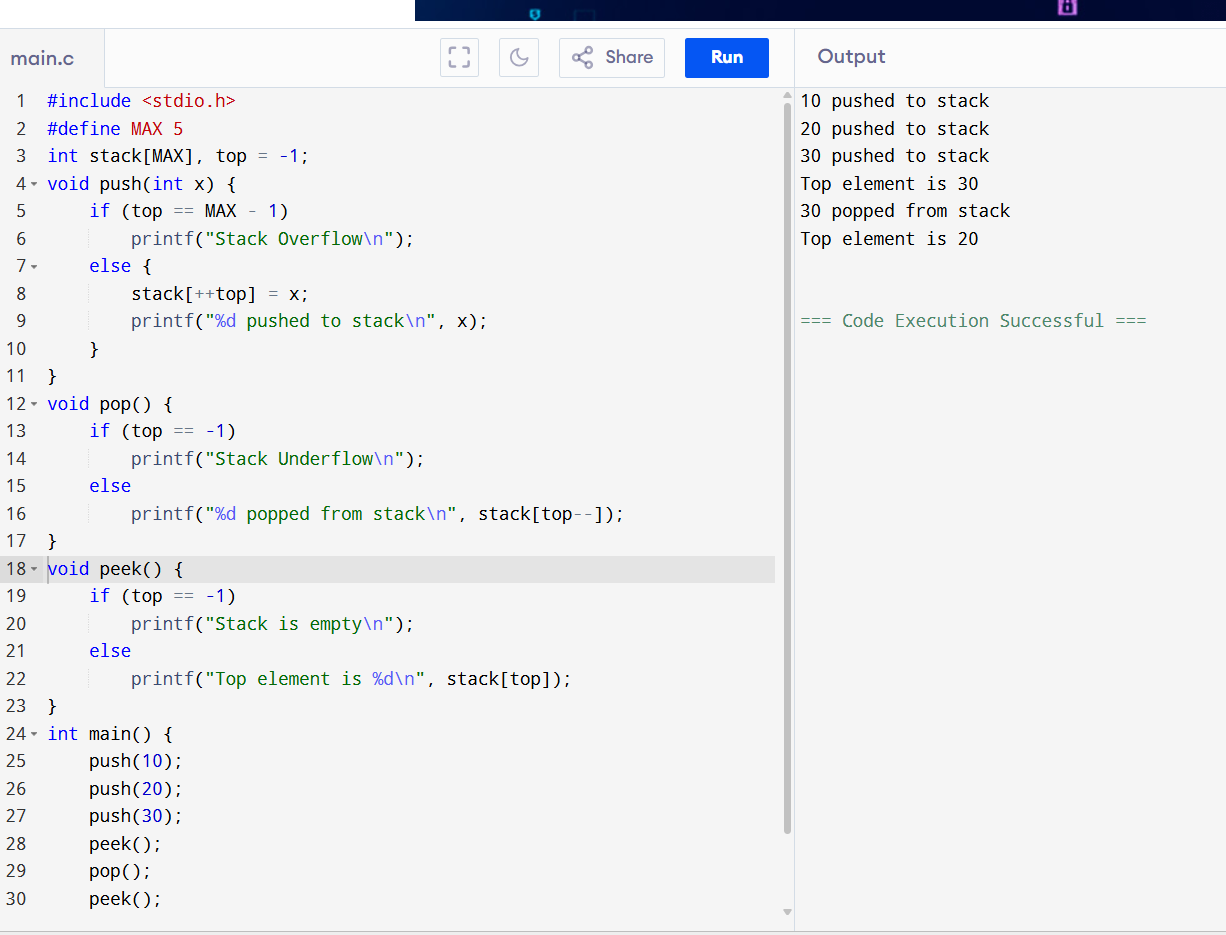
**2. POP()**

1. Check if top == -1. If yes, Stack Underflow (no elements).
2. Else, return stack[top] and decrement top.

**3. PEEK()**

1. If top == -1, stack is empty.
2. Else, return stack[top] (top-most element without removing).

**PROGRAM**

****