United International University (UIU)
Dept. of Computer Science and Engineering
Data Structures Laboratory
Course Code: CSI-218

Solve following Programming Problems:

1. Implement a ***stack data structure (for integer numbers)*** that consists of following operations:
    a. Push // insert at top
    b. Pop // delete from the top
    c. Is_full // check whether the stack if full or not
    d. Is_empty // check whether the stack is empty or not
    e. Top_up // return the top element

2. WAP that will evaluate postfix notations using a ***stack***.

Sample Inputs	***Sample Outputs***
56+82/*3+	Result: 47
23+6*	Result: 30

[Assignment - 03]

1. WAP that will check for brackets in a mathematical expression whether it is balanced or not.

Sample Inputs	***Sample Outputs***
{({})([])}}	Closing bracket overflow
[{{({})([])}}]	Balanced
[{{({})([])})]	Unmatched
(()){{{[]}{[][]}}	Opening bracket overflow