Lab Sheet 3

Stack

1. Design a Data Structure MyStack that supports all the stack operations like push(), pop(), isEmpty(), Top() and an additional operation getMin() which should return minimum element from the MyStack.

2. Implement a program to reverse a string using Stack.

3. Given a stack contains letters and digits. Use appropriate stack functionalities to remove digits from the stack and retain the stack with letters only.

4. Design two stacks using a single array.

5. Implement an algorithm with stack to check parenthesis matching in a given mathematical Expression.

6. Modify Question 4 to implement multiple stacks using single array.

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