

# Silicon Institute of Technology, Bhubaneswar

B. Tech. 2<sup>nd</sup> Semester, Section – B

**DSA Lab Assignment: #4** (Operations on Stack & Its Application) Date: 25-04-2022

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**Name of the Student:**

**Registration Number:**  
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1. WAP in C to implement Stack using array and perform its various operations.
2. WAP in C to reverse a string using Stack.
3. WAP in C to check whether a given string is palindrome or not using Stack.
4. WAP in C to check whether a given segment of code has both opening and closing brackets or not? i.e. check for balanced parentheses.
5. WAP in C to convert an infix expression to postfix expression using Stack.
6. WAP in C to convert an infix expression to prefix expression using Stack.
7. WAP in C to evaluate a postfix expression using Stack.

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