Modern Education Society's Wadia College of Engineering, Pune

NAME OF STUDENT:	CLASS:
SEMESTER/YEAR:	ROLL NO:
DATE OF PERFORMANCE:	DATE OF SUBMISSION:
EXAMINED BY:	EXPERIMENT NO: DSL D-27

TITLE :PERFORM VARIOUS OPERATION ON STACK AND IMPLEMENT ITS APPLICATION.

PROBLEM STATEMENT : Implement C++ program for expression conversion as infix to postfix and its evaluation using stack based on given conditions

- i. Operands and operator, both must be single character.
- ii. Input Postfix expression must be in a desired format.
- iii. Only '+', '-', '*' and '/' operators are expected.

OBJECTIVES:

- **1.** To understand structure of stack.
- 2. To understand How to Create, Display and perform various operation on stack.

OUTCOME:

- 1. To operate on the various structured data.
- 2. To analyze the problem to apply suitable algorithm and data structure.
- 3. To discriminate the usage of various structure in approaching problem solution.

PRE-REQUISITES:

- 1. Knowledge of C++ Programming
- 2. Knowledge of stack.

APPARATUS:

- 1. OS: Ubuntu 18.04.2 LTS
- 2. Processor: Intel® Core™ i7-4790S CPU
- 3. Graphics: GeForce GT 610/PCIe/SSE2
- 4. Storage: 400 GB
- 5. Text Editor: gedit
- 6. Compiler: GNU C++ Compiler (g++)
- 7. Terminal

QUESTIONS:

- 1. Evaluate the following postfix expression and show all steps: ab*c+d-e+
- 2. Write an algorithm to prefix to postfix.