**Practical No: 10 (D)**

**Practical Title:** Write C++ program to check well formedness of parenthesis using stack.

**Aim:** In any language program mostly syntax error occurs due to unbalancing delimiter such as (), {},[]. Write C++ program using stack to check whether given expression is well parenthesized or not.

**Pre-requisite:**

* Basics of stack.
* Different operations that can be performed on stack

**Objective**:

* To check whether the given expression is well parenthesized or not.

**Input:**

* Expression using {}, (), [].

**Outcome:**

* Result of checking well formedness of parenthesis.

**Theory:**

-Write short theory of stack.

- Write concept of well form parenthesis.

- Example of well form parenthesis..

**Algorithm:**

(Write your own algorithm for your program)

**Flowchart:**

(Draw your own flowchart for your algorithms)

**Conclusion:**

By this way, we can check well formedness of parenthesis using stack.

**Questions: (No need to write answers)**

1. What is Stack?

2. Which are the different operations that can be performed on stack?

3. Explain PUSH, POP operations on stack

4. What are the applications of stack?