Lab Performance (02)

1. **Write a C/C++ program that can detect whether the given mathematical expression is valid or not.**

Important Note:

- The first character must be an operand.
- The last character also must be an operand.
- An operator is always used between two operators.
- If the expression contains more than one neighbor operator or more than one neighbor operand together, it will be invalid.

2. **Write a C/C++ program that can detect whether the given sentence is grammatically correct or not.**

Important Note:

- First character of the given sentence must be a capital letter ['A'-'Z'].
- Last character of the given sentence must be a full stop ('.').
- If two capital letters ['A'-'Z'] are placed together, the sentence is grammatically incorrect.
- If two spaces (' ') are placed together, the sentence is grammatically incorrect.
- If a capital letter ['A'-'Z'] is placed immediately after a small case ['a'-'z'], the sentence is grammatically incorrect.
- If a space (' ') are placed immediately before a full stop ('.'), the sentence is grammatically incorrect.