

## Assignment – 5

Write a program in c to check whether an expression is correctly parenthesized or not. Only brackets will be considered.

**Sample input/output:**

Input: ((a + b)

Output: Not correctly parenthesized

Input: [a + {b \* c / (d + e) - f} + g] + h

Output: Correctly parenthesized

Input: [a + {b \* c / (d + e) - f} + g] + h

Output: Not correctly parenthesized

The name of the program should be **assign51\_<ROLL\_NO>.c**.

Write a program in c to check whether an expression is valid or not. Here, operands, operator and brackets all will be considered.

**Sample input/output:**

Input: (a b + b)

Output: Not valid

Input: [a + {b \* c / (d + e +) - f} + g] + h

Output: Not valid

Input: [a + {b \* c / (d + e) - f} + g] + h

Output: Valid

The name of the program should be **assign52\_<ROLL\_NO>.c**.