TRF Task 1

Task 1.1

1. Write Algorithm for
2. Balance Parenthesis

* **Step** **1**: Input the expression and put it in a character stack.
* **Step 2**: Scan the characters from the expression one by one.
* **Step 3**: If the scanned character is a starting bracket ( ‘ ( ‘ or ‘ { ‘ or ‘ [ ‘), then push it to the stack.
* **Step 4:** If the scanned character is a closing bracket ( ‘ ) ’ or ‘ } ’ or ‘ ] ’ ), then pop from the stack and if the popped character is the equivalent starting bracket, then proceed. Else, the expression is unbalanced.
* **Step 5:** After scanning all the characters from the expression, if there is any parenthesis found in the stack or if the stack is not empty, then the expression is unbalanced.