

Mone Ruba Rihi

## HW2

The Postfix Expression Calculator term came from the Reverse Polish notation, where instead of writing an expression where there is one operator between 2 numbers, we can write the operator after we write the operands or numbers.

The code uses some algorithms that I am familiar with most of them. There are four functions in the code that will be use in main code. The first one is void evaluateExpression, it has 5 parameters.

1. To read or access the input file. Usually from text file (ifstream)
2. To write or output the file, usually to another text file (ofstream)
3. Calling stackType header
4. And to check if there are any legal symbols in the input.

The second function is evaluateOpr. This function is used to evaluate the expression. If there are 2 operands in the stack, and the program encounter any symbols operator, evaluateOpr will then be called and do the operation. If somehow none of the symbols is not the right symbols, then this code will not evaluate the numbers.

The third function is discardExp. The discardExp function is used to re-write the expression that is ineligible to perform an evaluation, but still need to output it to the text file with appropriate message as to why it can't be evaluated.

The last function is to print out the function into the other text file. Whether the expression has any errors or not.

