**C++ Programming Assignments – L1**

Expression Evaluator

Design and implement an expression evaluator to evaluate arithmetic expression.

Expression can have unary and binary operators.

To start with, you can assume following as possible operators.

Unary +, Unary -, Binary +, Binary -, multiplication \* and division /

Example of valid expressions:

* -10+20\*8-90/2
* (-10+20)\*8-90/2
* -10
* +5

Hint: two components –

* 1. Parser – To scan the input string, check for syntax, and possibly/optionally produce an intermediate representation
  2. Evaluator – To evaluate the expression tree.