Write a Python program that accepts as input a string that represents an arithmetic equation and calculates the expressions. The output should be in numeric format.

There should be two modules in the program:

1. Parser – open the file, parse it and add each line to queue
2. Calculator – reads lines from the queue and returns the result

A close up of a logo

Description automatically generated

The use of numbers in the input string is forbidden – rather use the digits’ word (e.g. zero, one, two, three, … Nine).

The arithmetic operations are given in their natural format (i.e. +, -, \*, /) as well as support of parenthesis ‘(‘ and ‘)’.

Keep in mind that the order of operations must be taken into consideration in the result.

For example:

* Input: Two + Four   
  Arithmetic Expression: 2 + 4  
  Output: 6
* Input: Two + Four \* Six   
  Arithmetic Expression: 2 + 4 \* 6  
  Output: 26
* Input: Five Zero + Six \* (Two + Three)  
  Arithmetic Expression: 50 + 6 \* (2+3)   
  Output: 80