**READ ME**

This package version includes the program for the following requirement mentioned for Project-2:

Write a program that implements an arbitrary precision arithmetic package according to the specifications below.

Your need to represent only non-negative integers. The numbers will be represented in base B (B chosen by you) by a linked list (read about representing polynomials with linked lists). Note that, for convenience, the list can be ordered from the least significant ``digit'' to the most significant ``digit''.

The program takes input from stdin. Each line is an arithmetic expression with numbers (in decimal), +, -, \*, ^ (exponentiation), and parentheses.

Operator precedence: ^, \*, {+,-} (same as in programming languages).

Your program should read each line and calculate the value of the expression

and print it to stdout. A line with "0" means the program should stop.

**Files Impacted:**

BigNumberOperation.java

LinkedListPolynomial.java

Node.java

**NOTE:**

* If negative numbers are encountered then a message is displayed “Negative numbers are not supported”.
* The input is taken from an input file- “**project\_2\_inputFile1.txt”,** and the output will be displayed on the console.
* Invalid expressions will give the output as **“Syntax Error”.**
* Invalid operators will give the output as **“Unknown Operator”.**