# **Arithmetic Operations Calculator**

#### **IDEA**

- A Simple compiler implementation of the front-end phases of compiler design representing a simple arithmetic operations calculator program.
- The calculator will handle the following operations:
  - + | | \* | / | mod | ^ | Sqrt | (PAREN).

Applied on Integer/Floating point numbers (positive & negative).

• The implementation will be in C++ as a programming language.

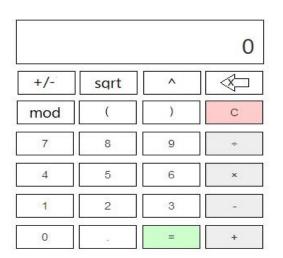
## **Description**

• The Calculator will accept any proper arithmetic syntax formed by the previously mentioned arithmetic operations and numbers, then the front-end phases will be applied on the input till the optimization of the output.

### **Strings samples**

Accepted	Rejected
(((-13*4) / 2) - 4) mod 2	(2*/3) - 17/0
(175*4.2) / (3*24) - sqrt (4) )	(13+3 /17+2 mod5))

### **Interface Prototype**



#### **Team Members**

#Mona Omar Mohamed (CS/LVL4)

#Israa Mahmoud Abdul Rasoul (CS/LVL4)

#Eslam Mohamed Kamal Eldeen (CS/LVL4)