**ZIYTECHS CALCULATOR PROGRAM**

* Welcome the user
* Inform the user about the available mathematical operations
* List the available operations (Addition, Subtraction, Multiplication, Division, Square, square root, Exit program (Alert, are you sure you want to exit this program?))
* Ask the user the kind of operation they intend to perform and take their response
* Convert the response to float, and save the response in a variable.
* Handle user input errors
* Request for the numbers intended for mathematical operation (num1, num2)
* Handle user input errors
* Save the responses in a variable
* Write a function to perform the operations and display the results. Comment on the function of each **function**.
* For the division function, check for zero denominator error. You can’t perform divide by zero operation. Use conditional statement to handle zero input for denominator.
* Print the result
* Thank the user
* Request if the user intends to perform another operation (If yes, rerun the program, if no Terminate the program safely)
* Exit the program

Note: Use line breaks and comments where necessary.

**NOTES AND PROGRESS**

AREA\_OF\_IMPROVEMENTS

Instead of running the program over and over without the user's consent. FIXED

it will be better to ask the user if they will like to perform another transaction before running it again FIXED

If an invalid option is entered into the first question, the program should request for a correct option, it should not proceed. FIXED

The "carry\_on" function run once, I will like to keep asking "if the user will like to perform another operation after each operation",

if yes, the program should run, if No, the program should terminate. FIXED

Fix the division error, and complete the function for square root FIXED

I am still trying to figure out how to integrate the power and square opration into the calculator. FIXED

NOTES

A converted string case does not work in "IF" statement. So I have to use "Y" or "y", "N" or "N"

There is a limit for exponential value in Python. If you input a value that exceeds 4300, the program will return a "ValueError". It also recommends a solution. ValueError: Exceeds the limit (4300) for integer string conversion; use sys.set\_int\_max\_str\_digits() to increase the limit

It does not multiply numbers that begin with zero. It thrown back a syntax error.

SyntaxError: leading zeros in decimal integer literals are not permitted; use an 0o prefix for octal integers