

The code is an implementation of a calculator, which each version either implementing or violating the principles KISS, YAGNI, code documentation, and clean code. KISS is done properly in fixed.py with efficient inputs, calculations, and responses for the calculator operations. It is violated in issues.py in places like the multiply function where it is overcomplicated logic with a while loop instead of simply calculating the multiplication operation. YAGNI is implemented in fixed.py by only having necessary and used code. It is violated in issues.py with the power function that would calculate the power of an inputted number but it is not implemented. Code documentation is implemented in fixed.py by including clear function documentation with parameters and return values and by not over commenting the main code where the logic is clear based on the code itself. This is violated in issues.py with unclear function documentation and unnecessary and overdone commenting in the main function. Clean code is implemented in fixed.py with clear and focused code, shown by each function serving a specific role and the code itself spaced well and code that is easy to read with intuitive variable names and clear logic. This is violated in issues.py with the add or subtract function making its logic more complicated and purpose unclear. The variables are also too vague to understand their purpose on an initial look. The unnecessary commenting also makes the code harder to read.