

Horrible Code Activity: Calculator Program

Names: Meet Patel, Daniel Morley, and Duber Moreira

Principles Violations:

1. **KISS:** The bad_calculator program does its job but it can be simplified further.
2. **DRY:** The bad_calculator program repeats its logic in every function.
3. **Clean Code:** The bad_calculator program is not clean. Given each function has its own variables, fixing it for later versions can be annoying and repetitive.
4. **Code Documentation:** The bad_calculator program has a lot of comments given the terrible names for each variable.

Principles Used in good_calculator.py:

1. KISS (Keep It Simple, Stupid)
 - The code is modular and easy to read.
 - Uses functions instead of a long, unstructured script.
 - The calculate() function simplifies operation selection.
2. DRY (Don't Repeat Yourself)
 - Eliminates repetitive if-elif conditions by using a dictionary to map operations.
 - Instead of writing separate print statements for each operation, it calls calculate() once.
3. Separation of Concerns
 - Each function has a single responsibility:
 - add(), subtract(), multiply(), and divide() only perform calculations.
 - calculate() selects the operation.
 - main() handles input and output.
 - This makes it easier to debug and modify.
4. Clean Code
 - Uses meaningful function names (add(), subtract(), etc.).
 - Uses formatted output (f"Result: {calculate(x, y, op)}") for better readability.
 - Includes error handling (try-except) to prevent crashes.

Screenshots:

Default					
Branch	Updated	Check status	Behind	Ahead	Pull request
main	now				Default
Your branches					
Branch	Updated	Check status	Behind	Ahead	Pull request
Daniel-Branch	7 minutes ago		1	0	
Active branches					
Branch	Updated	Check status	Behind	Ahead	Pull request
Duber_branch	7 minutes ago		1	0	
Daniel-Branch	7 minutes ago		1	0	

Commits	
main	All users All time
Commits on Feb 17, 2025	
<div><div><div>feat: Added comments for clarity mfxzu committed 1 minute ago</div><div>bdea748 </div></div><div><div>Added bad calculator program DuberMM21 committed 11 minutes ago</div><div>2454ea1 </div></div><div><div>Reinitialized repository with calculator code pmeet9341 committed 25 minutes ago</div><div>f8649b1 </div></div><div><div>Initial commit pmeet9341 authored 35 minutes ago</div><div>Verified 2d5b863 </div></div></div>	