Python Calculator Project

Project Structure

python-calculator/
calculator.py
README.md

calculator.py Code

```python
def add(a, b):
    return a + b

def subtract(a, b):
    return a - b

def multiply(a, b):
    return a * b

def divide(a, b):
    if b == 0:
        return "Error! Division by zero."
    return a / b

while True:
    print("\n--- Simple Python Calculator ---")
    print("1. Addition")
    print("2. Subtraction")
    print("3. Multiplication")
    print("4. Division")
    print("5. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 5:
        print("Calculator closed.")
        break

    a = float(input("Enter first number: "))
    b = float(input("Enter second number: "))

    if choice == 1:
        print("Result:", add(a, b))
    elif choice == 2:
        print("Result:", subtract(a, b))
    elif choice == 3:
        print("Result:", multiply(a, b))
    elif choice == 4:
        print("Result:", divide(a, b))
    else:
        print("Invalid choice!")
```

How to Run

Run the program using: python calculator.py