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In [ ]: # Defining operation functions.
    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: Can't divide by 0"
        return a / b
    # Welcome screen
    print("Welcome to the Simple Calculator")
    # While True loop used to loop the process again unless the user gives selects the option to stop.
    while True:
        # Following loop handles number input, and gracefully handles incorrect input.
        while True:
            try:
                a = float(input("First number: "))
                b = float(input("Second number: "))
                break
            except ValueError:
                print("Invalid input. Please enter numbers only.")
        # Following loop handles operation input and gracefully handles incorrect input.
        while True:
            print("Select an operation:\n1. Addition\n2. Subtraction\n3. Multiplication\n4. Division")
            option = input("Enter the operation number: ")
            if option == "1":
                 print(add(a,b))
                break
            elif option == "2":
                print(subtract(a,b))
                 break
            elif option == "3":
                print(multiply(a,b))
                break
             elif option == "4":
                 print(divide(a,b))
                 break
            else:
                 print("Invalid choice, please select 1, 2, 3, or 4.")
        # All of the calculator input, operations and output are subject to the repeating because of the while true loop in line 20
        while True:
             repeat = input("Do you want to perform another calculation? (y/n): ")
            if repeat in ("y"):
                break
             elif repeat in ("n"):
                print("Goodbye!")
                 exit()
            else:
                print("Incorrect input, please use 'y' or 'n'.")
   Welcome to the Simple Calculator
   Select an operation:
   1. Addition
   2. Subtraction
   3. Multiplication
   4. Division
   -50000.0
   Select an operation:

Addition

   2. Subtraction
   3. Multiplication
   4. Division
   0.125
   Goodbye!
```