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task-2.py

```
1
    def calculator():
 2
        print("\nSIMPLE CALCULATOR")
 3
        print("Operations available:")
 4
        print("1. Addition (+)")
        print("2. Subtraction (-)")
 5
 6
        print("3. Multiplication (*)")
 7
        print("4. Division (/)")
        print("5. Modulus (%)")
 8
 9
        print("6. Exponentiation (**)")
10
11
        while True:
12
            try:
13
14
                num1 = float(input("\nEnter first number: "))
                num2 = float(input("Enter second number: "))
15
                operation = input("Enter operation (+, -, *, /, %, **): ").strip()
16
17
18
19
                if operation == '+':
                    result = num1 + num2
20
21
                    print(f"Result: {num1} + {num2} = {result}")
                elif operation == '-':
22
                    result = num1 - num2
23
                    print(f"Result: {num1} - {num2} = {result}")
24
25
                elif operation == '*':
26
                    result = num1 * num2
                    print(f"Result: {num1} * {num2} = {result}")
27
28
                elif operation == '/':
                    if num2 == 0:
29
                        print("Error: Division by zero!")
30
31
                    else:
                        result = num1 / num2
32
                         print(f"Result: {num1} / {num2} = {result}")
33
                elif operation == '%':
34
35
                    if num2 == 0:
36
                        print("Error: Division by zero!")
37
                    else:
                        result = num1 % num2
38
39
                        print(f"Result: {num1} % {num2} = {result}")
                elif operation == '**':
40
                    result = num1 ** num2
41
                    print(f"Result: {num1} ** {num2} = {result}")
42
43
                else:
                    print("Invalid operation! Please enter one of: +, -, *, /, %, **")
44
45
                # Ask if user wants to perform another calculation
46
                again = input("\nPerform another calculation? (y/n): ").lower()
47
                if again != 'y':
48
```

7/19/25, 7:52 PM task-2.py 49 print("\nThank you for using the calculator!") 50 break 51 52 except ValueError: print("Invalid input! Please enter numbers only.") 53 54 if __name__ == "__main__": 55 calculator() 56