

task-2.py

```
1 def calculator():
2     print("\nSIMPLE CALCULATOR")
3     print("Operations available:")
4     print("1. Addition (+)")
5     print("2. Subtraction (-)")
6     print("3. Multiplication (*)")
7     print("4. Division (/)")
8     print("5. Modulus (%)")
9     print("6. Exponentiation (**)")
10
11     while True:
12         try:
13
14             num1 = float(input("\nEnter first number: "))
15             num2 = float(input("Enter second number: "))
16             operation = input("Enter operation (+, -, *, /, %, **): ").strip()
17
18
19             if operation == '+':
20                 result = num1 + num2
21                 print(f"Result: {num1} + {num2} = {result}")
22             elif operation == '-':
23                 result = num1 - num2
24                 print(f"Result: {num1} - {num2} = {result}")
25             elif operation == '*':
26                 result = num1 * num2
27                 print(f"Result: {num1} * {num2} = {result}")
28             elif operation == '/':
29                 if num2 == 0:
30                     print("Error: Division by zero!")
31                 else:
32                     result = num1 / num2
33                     print(f"Result: {num1} / {num2} = {result}")
34             elif operation == '%':
35                 if num2 == 0:
36                     print("Error: Division by zero!")
37                 else:
38                     result = num1 % num2
39                     print(f"Result: {num1} % {num2} = {result}")
40             elif operation == '**':
41                 result = num1 ** num2
42                 print(f"Result: {num1} ** {num2} = {result}")
43             else:
44                 print("Invalid operation! Please enter one of: +, -, *, /, %, **")
45
46             # Ask if user wants to perform another calculation
47             again = input("\nPerform another calculation? (y/n): ").lower()
48             if again != 'y':
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49         print("\nThank you for using the calculator!")
50         break
51
52     except ValueError:
53         print("Invalid input! Please enter numbers only.")
54
55 if __name__ == "__main__":
56     calculator()
```