File - C:\Users\Lenovo\PycharmProjects\pythonProject\calculator.py

```
 1 # Function to perform addition
 2 def add(x, y):
 3     return x + y
 4
 5 # Function to perform subtraction
 6 def subtract(x, y):
 7     return x - y
 8
 9 # Function to perform multiplication
10 def multiply(x, y):
11     return x * y
12
13 # Function to perform division
14 def divide(x, y):
15     if y == 0:
16         return "Error: Division by zero"
17     return x / y
18
19 while True:
20     print("Options:")
21     print("Enter 'add' for addition")
22     print("Enter 'subtract' for subtraction")
23     print("Enter 'multiply' for multiplication")
24     print("Enter 'divide' for division")
25     print("Enter 'quit' to end the program")
26
27     user_input = input(": ")
28
29     if user_input == "quit":
30         break
31     elif user_input in ("add", "subtract", "multiply"
   , "divide"):
32         num1 = float(input("Enter first number: "))
33         num2 = float(input("Enter second number: "))
34
35         if user_input == "add":
36             print("Result: " + str(add(num1, num2)))
37         elif user_input == "subtract":
38             print("Result: " + str(subtract(num1,
   num2)))
39         elif user_input == "multiply":
```

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            print("Result: " + str(multiply(num1, num2)))
        elif user_input == "divide":
            print("Result: " + str(divide(num1, num2)))
    else:
        print("Invalid input. Please try again.")


```