

Simple Python Calculator - Summary Report-1

Purpose:

A basic calculator program that performs simple arithmetic operations: addition, subtraction, multiplication, and division based on user input.

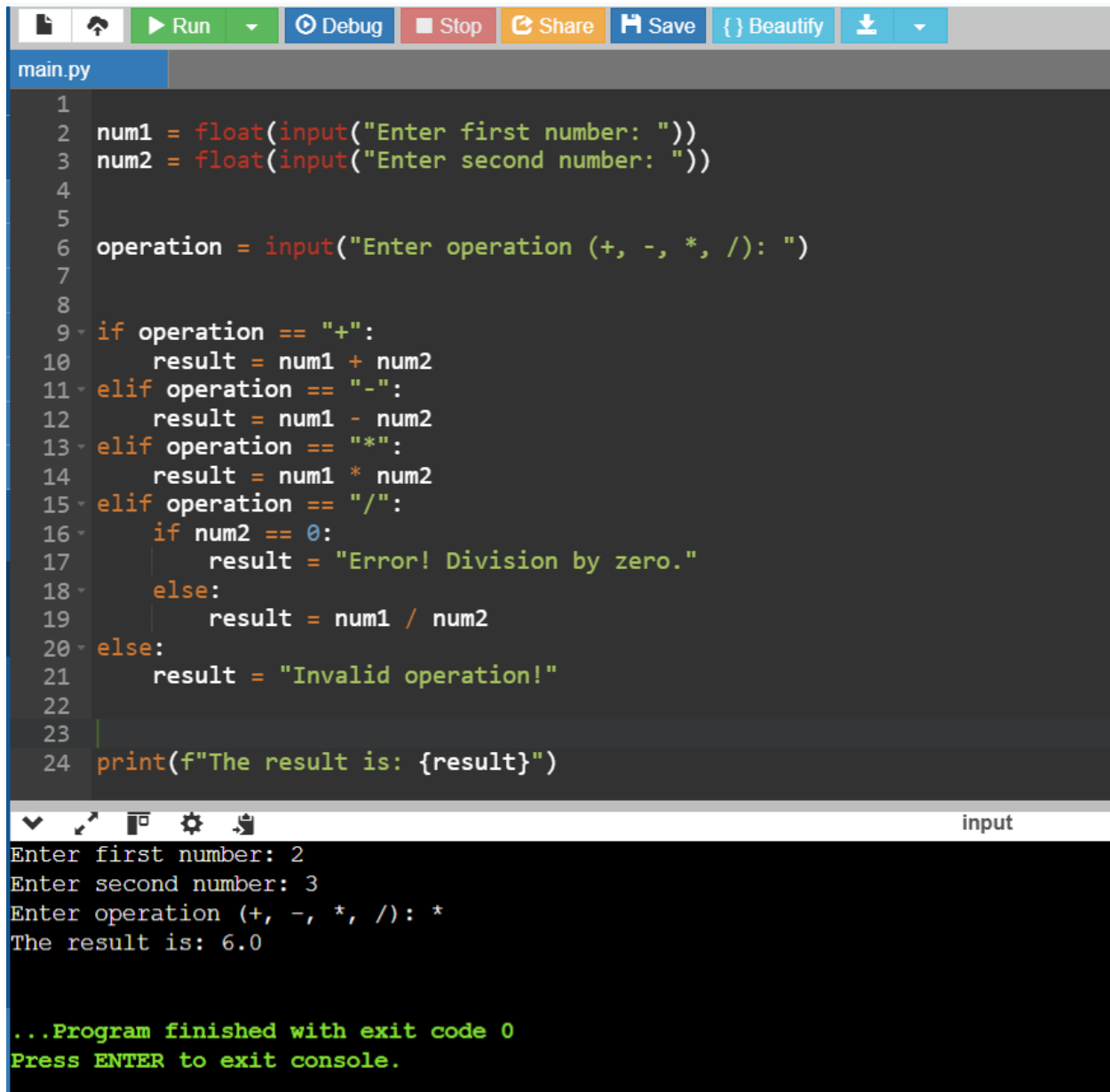
Code Structure:

1. **Input Handling:** Takes two numbers and an arithmetic operation from the user.
 2. **Conditional Statements:** Performs the chosen operation using if-elif-else statements.
 3. **Output:** Displays the result of the operation or an error message if the operation is invalid or division by zero occurs.
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Key Features:

- **Basic Operations:** Addition, subtraction, multiplication, and division.
- **Error Handling:** Catches invalid operations and division by zero.
- **Simple Input/Output:** Prompts for user input and outputs the result.

Code:



```
main.py
1
2 num1 = float(input("Enter first number: "))
3 num2 = float(input("Enter second number: "))
4
5
6 operation = input("Enter operation (+, -, *, /): ")
7
8
9 if operation == "+":
10     result = num1 + num2
11 elif operation == "-":
12     result = num1 - num2
13 elif operation == "*":
14     result = num1 * num2
15 elif operation == "/":
16     if num2 == 0:
17         result = "Error! Division by zero."
18     else:
19         result = num1 / num2
20 else:
21     result = "Invalid operation!"
22
23
24 print(f"The result is: {result}")
```

input

```
Enter first number: 2
Enter second number: 3
Enter operation (+, -, *, /): *
The result is: 6.0

...Program finished with exit code 0
Press ENTER to exit console.
```

Conclusion:

This calculator handles basic arithmetic with clear inputs and outputs. It can be easily expanded with more features, such as additional operations or improved error handling.