Test Case	Input	Expected Output	Observation
1. Addition	Operation: 1 Num1: 15 Num2: 25	Result: 15.0 + 25.0 = 40.00	The result displayed was 40.00, as expected.
2. Subtraction	Operation: 2 Num1: 50 Num2: 20	Result: 50.0 - 20.0 = 30.00	The result displayed was 30.00, as expected.
3. Multiplication	Operation: 3 Num1: 7 Num2: 8	Result: 7.0 * 8.0 = 56.00	The result displayed was 56.00, as expected.
4. Division	Operation: 4 Num1: 9 Num2: 3	Result: 9.0 / 3.0 = 3.00	The result displayed was 3.00, as expected.
5. Division by Zero	Operation: 4 Num1: 10 Num2: 0	Output: Cannot divide by zero.	The program correctly showed "Cannot divide by zero."
6. Invalid Operation Input	Operation: 7	Output: Invalid option. Try again.	The program prompted with "Invalid option."
7. Invalid Number Input	Operation: 1 Num1: a Num2: 5	Output: Please enter valid numbers.	The program showed "Please enter valid numbers."
8. Operation After Exiting	Operation: 5 Operation: 1 Num1: 10 Num2: 5	Output: Exiting the calculator. Goodbye!	The program exited and did not perform further calculations.
9. Edge Case for Large Numbers	Operation: 3 Num1: 1e+10 Num2: 1e+10	Result: 1.00e+20	The program handled large numbers and displayed the result as 1.00e+20.
10. Edge Case for Small Numbers	Operation: 4 Num1: 0.0001	Result: 0.0001 / 0.0002 = 0.50	The program correctly handled small decimal numbers and displayed 0.50.

	Num2: 0.0002		
11. Consecutive Operations	Operation: 1 Num1: 4 Num2: 3 Operation: 2 Num1: 10 Num2: 5	First Result: 7.00 Second Result: 5.00	Both operations worked correctly with expected results.
12. Input Without Operation	Directly press Enter	Output: Invalid input. Please enter a number.	The program prompted "Invalid input" as expected.