Test cases for Simple Calculator:

Test Case No	Test Case	Input	Expected output	Actual output
1	Addition of two positive numbers	Enter the first number: 10 Enter the second number: 5 Enter the operation number between 1 to 5: 1	Result: 10.0 + 5.0 = 15.0	Result: 10.0 + 5.0 = 15.0
2	Addition of one positive and one negative number	Enter the first number: - 10 Enter the second number: 5 Enter the operation number between 1 to 5: 1	Result: - 10.0 + 5.0 = - 5.0	Result: - 10.0 + 5.0 = - 5.0
3	Subtraction of two numbers	Enter the first number: 15 Enter the second number: 5 Enter the operation number between 1 to 5: 2	Result: 15.0 - 5.0 = 10.0	Result: 15.0 - 5.0 = 10.0
4	Subtraction of two negative numbers	Enter the first number: - 15 Enter the second number: - 5 Enter the operation number between 1 to 5: 2	Result: - 15.0 - - 5.0 = -10.0	Result: - 15.0 - - 5.0 = - 10.0
5	Multiplication of two numbers	Enter the first number: 3 Enter the second number: 4 Enter the operation number between 1 to 5: 3	Result: 3.0 * 4.0 = 12.0	Result: 3.0 * 4.0 = 12.0
6	Multiplication of one positive and one negative number	Enter the first number: 3 Enter the second number: - 4 Enter the operation number between 1 to 5: 3	Result: 3.0 * - 4.0 = -12.0	Result: 3.0 * - 4.0 = -12.0
7	Division of two positive numbers	Enter the first number: 10 Enter the second number: 2 Enter the operation number between 1 to 5: 4	Result: 10.0 / 2.0 = 5.0	Result: 10.0 / 2.0 = 5.0
8	Division of one positive and one negative number	Enter the first number: 10 Enter the second number: - 2 Enter the operation number between 1 to 5: 4	Result: 10.0 / - 2.0 = - 5.0	Result: 10.0 / - 2.0 = - 5.0
9	Modulo of two positive numbers	Enter the first number: 60 Enter the second number: 8 Enter the operation number between 1 to 5: 5	Result: 60.0 / 8.0 = 4.0	Result: 60.0 / 8.0 = 4.0
10	Division by Zero	Enter the first number: 10 Enter the second number: 0 Enter the operation number between 1 to 5: 4	Result: 10.0 / 0.0 = Error: Oops! You have entered a wrong number. Division by zero is not allowed.	Result: 10.0 / 0.0 = Error: Oops! You have entered a wrong number. Division by zero is not allowed.

Test Case No	Test Case	Input	Expected output	Actual output
11	Invalid Number Input	Enter the first number: k	Invalid input. Please enter a valid number.	Invalid input. Please enter a valid number.
12	Invalid Operation Selection	Enter the operation number between 1 to 5: 6	Invalid input. Please select a valid operation number between 1 to 5.	Invalid input. Please select a valid operation number between 1 to 5.
13	Perform Multiple Calculations	Enter the first number: 6 Enter the second number: 3 Select an operation (1-4): 1 Do you want to perform another calculation? (yes/no): yes Enter the first number: 8 Enter the second number: 2 Select an operation (1-4): 4 Do you want to perform another calculation? (yes/no): no	Result: 6.0 + 3.0 = 9.0 Result: 8.0 / 2.0 = 4.0 Goodbye!	Result: 6.0 + 3.0 = 9.0 Result: 8.0 / 2.0 = 4.0 Goodbye!