```python
#Program for a basic calculator that takes two numbers and an
arithmetic operation as input and displays the result

def calculator():
    print("Simple Calculator")
    print("Select an operation:")
    print("1. Addition (+)")
    print("2. Subtraction (-)")
    print("3. Multiplication (*)")
    print("4. Division (/)")

    # Taking user input
    operation = input("Enter the number of the operation (1/2/3/4): ")

    if operation not in ['1', '2', '3', '4']:
        print("Invalid operation choice!")
        return

    try:
        num1 = float(input("Enter the first number: "))
        num2 = float(input("Enter the second number: "))
    except ValueError:
        print("Invalid input! Please enter numeric values.")
        return

    # Performing the operation
    if operation == '1':
        result = num1 + num2
        print(f"Result: {num1} + {num2} = {result}")
    elif operation == '2':
        result = num1 - num2
        print(f"Result: {num1} - {num2} = {result}")
    elif operation == '3':
        result = num1 * num2
        print(f"Result: {num1} * {num2} = {result}")
    elif operation == '4':
        if num2 == 0:
            print("Error! Division by zero is not allowed.")
        else:
            result = num1 / num2
            print(f"Result: {num1} / {num2} = {result}")

# Run the calculator
calculator()

Simple Calculator
Select an operation:
1. Addition (+)
2. Subtraction (-)
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3. Multiplication (*)
4. Division (/)

Enter the number of the operation (1/2/3/4):  1
Enter the first number:  20
Enter the second number:  10

Result: 20.0 + 10.0 = 30.0
```