Python Program: Basic Mathematical Operations

```python
# Python program to perform basic mathematical operations

# Taking input from the user
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

# Performing operations
addition = num1 + num2
subtraction = num1 - num2
multiplication = num1 * num2

# Handling division by zero
if num2 != 0:
    division = num1 / num2
else:
    division = "Undefined (cannot divide by zero)"

# Displaying results
print("\n--- Results ---")
print("Addition:", addition)
print("Subtraction:", subtraction)
print("Multiplication:", multiplication)
print("Division:", division)
```