In [1]:
```python
#Arithmetic Operators

# Simple Arithmetic Operations
a = 8
b = 2

print("Addition:", a + b)
print("Subtraction:", a - b)
print("Multiplication:", a * b)
print("Division:", a / b)
```

Addition: 10
Subtraction: 6
Multiplication: 16
Division: 4.0

In [2]:
```python
#Comparison Operations

x = 7
y = 5

print("Is x equal to y?", x == y)
print("Is x greater than y?", x > y)
print("Is x less than or equal to y?", x <= y)
```

Is x equal to y? False
Is x greater than y? True
Is x less than or equal to y? False

In [3]:
```python
#Logical Operations
a = True
b = False

print("AND operation:", a and b)
print("OR operation:", a or b)
print("NOT operation:", not a)
```

AND operation: False
OR operation: True
NOT operation: False

In [4]:
```python
#Assignment Operations
num = 5
num += 3
print("After += 3:", num)

num *= 2
print("After *= 2:", num)
```

After += 3: 8
After *= 2: 16

In [5]:
```python
#Operator Precedence Example
a = 3
b = 2
c = 1
```

```python
result = a + b * c
print("Result of a + b * c:", result)
```

Result of a + b * c: 5

In [ ]: