In [1]:
```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))

add = a + b
sub = a - b
mul = a * b
div = a / b
mod = a % b      # Modulus
exp = a ** b     # Exponent
fdiv = a // b    # Floo division

print("Addition =", add)
print("Subtraction =", sub)
print("Multiplication =", mul)
print("Division =", div)
print("Modulus =", mod)
print("Exponent =", exp)
print("Floor Division =", fdiv)
```

```
Addition = 35
Subtraction = 15
Multiplication = 250
Division = 2.5
Modulus = 5
Exponent = 95367431640625
Floor Division = 2
```

In [2]:
```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))

# Relational Operators
print("a > b :", a > b)
print("a < b :", a < b)
print("a == b :", a == b)
print("a != b :", a != b)
print("a >= b :", a >= b)
print("a <= b :", a <= b)

# Logical Operators
print("(a > b) and (a != b) :", (a > b) and (a != b))
print("(a < b) or (a == b) :", (a < b) or (a == b))
print("not(a > b) :", not(a > b))
```

```
a > b : False
a < b : True
a == b : False
a != b : True
a >= b : False
a <= b : True
(a > b) and (a != b) : False
(a < b) or (a == b) : True
not(a > b) : True
```

In [3]:
```
num = int(input("Enter number: "))
```

```
# While loop
temp = num
rev = 0
while temp > 0:
    rev = rev * 10 + temp % 10
    temp = temp // 10

print("Reverse using while loop:", rev)

# For loop
rev = 0
temp = num
count = 0

n = num
while n > 0:
    count = count + 1
    n = n // 10

for i in range(count):
    rev = rev * 10 + temp % 10
    temp = temp // 10

print("Reverse using for loop:", rev)
```

```
Reverse using while loop: 54321
Reverse using for loop: 54321
```

In [4]:

```
num = int(input("Enter number: "))

temp = num
rev = 0
count = 0

n = num
while n > 0:
    count = count + 1
    n = n // 10

for i in range(count):
    digit = temp % 10
    rev = rev * 10 + digit
    temp = temp // 10

print("Reverse:", rev)
```

```
Reverse: 524
```

In [ ]: