Mainly 3 Operators

1. Arithmatic

2. Relational

3. Logical

b = 3

remainder = 2power = 1331

Other operators are - Assignment, Identity and Membership 1. Arithmatic Operators

Operator Description

Operator	Description	Example
+	Adds operands	a + b = 5
-	Subtracts right operand from left operand	a - b = 1
*	Multiplies both operands	a * b = 6
/	Quotient of division of left operand by right operand	a / b = 1.5 (float)
//	Quotient of division of left operand by right	a // b = 1 (int)
%	Remainder of division of left operand by right operand	a % b = 1
**	Left operand raised to the power of right operand	a ** b = 9

print("sum =", a + b) print("difference =", a - b) print("product =", a * b) print("quotient =", a / b) print("quotient (integer) =", a // b) print("remainder =", a % b) print("power =", a ** b) sum = 14difference = 8product = 33quotient = 3.66666666666665 quotient (integer) = 3

Description Operator

and False if it is false.

2. Relational Operators

(a == b) is False Equal to

Relational Operators check the relationship between two operands. They return True if the relationship is true

Example

!=	Not equal to	(a != b) is True
>	Greater than	(a > b) is True
<	Less than	(a < b) is False
>=	Greater than or equal to	(a >= b) is True
<=	Less than or equal to	(a <= b) is False
a < b		
False		

Out[12]: True

Out[14]: True

(a > b): True (a < b) : False(a >= b) : True $(a \le b) : False$ 3. Logical Operators

Out[18]: True

a&a #True&True is True

Out[19]: False

a|b Out[20]: True

#In this case, among 'a' & 'b', 'a' has stared 'Ture'

Out[21]: True

In [29]: a|a

Out[29]: True

Out[30]: False

In [21]: b|a

Out[13]: False

a !=b

b = 2

(a == b) : False(a != b) : True

and (&), or (/)

a**=True** b=False

In [18]:

In [19]:

print("(a == b) :", a == b) print("(a != b) :", a != b) print("(a > b) :", a > b) print("(a < b) :", a < b)</pre> print("(a >= b) :", a >= b) print("(a <= b) :", a <= b)</pre>

In [14]:

False False

b|b

Operator Exp1 Output (Boolean) Exp1 True and True True **False** True and False False False False and

#Why True Here? In the mix of operands, if any any operand has stored true in it the final result will always k

True	or	True	True	
True	or	false	True	
False	or	False	False	
x = 10				
y = 20 print(x == 10 print(x == 3				
True				

In [4]: True x = 10y = 20 print(not(x == 10 and y == 20))print(not(x == 3 or y == 20))