COMPUTING FUNDAMENTALS USING PYTHON

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Python Basics - Operators

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Arithmetic Operators

- + Addition x + y
- - Subtraction x - y
- * Multiplication x * y
- / Division x / y
- % Modulus x % y
- ** Exponentiation x ** y
- // Floor division x // y

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Arithmetic Operators - Assignment Operators

=	x = 5	x = 5
-=	x -= 5	x = x - 5
/=	x /= 5	x = x / 5
//=	x //= 5	x = x //5

+=	x += 5	x = x + 5
*=	x *= 5	x = x * 5
%=	x %= 5	x = x %5
**=	x **= 5	x = x **5

Arithmetic Operators - Comparison Operators

- Comparison operators are used to **compare values**.
- It either **returns True or False** according to the condition.

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Arithmetic Operators - Comparison Operators

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> **Greater than** - True if left operand is greater than the right

< **Less than** - True if left operand is less than the right

== **Equal to** - True if both operands are equal

!= **Not equal to** - True if operands are not equal

>= **Greater than or equal to** - True if left operand is greater than or equal to the right

<= **Less than or equal to** - True if left operand is less than or equal to the right

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Comparison Operators

Here are few example :→

```
x = 10
y = 12

# Output: x > y is False
print('x > y is',x>y)

# Output: x < y is True
print('x < y is',x<y)

# Output: x == y is False
print('x == y is',x==y)

# Output: x != y is True
print('x != y is',x!=y)

# Output: x >= y is False
print('x >= y is',x>=y)

# Output: x <= y is True
print('x <= y is',x<=y)
```

Output is as shown below:

```
x > y is False
x < y is True
x == y is False
x != y is True
x >= y is False
x <= y is True
```

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Logical Operators

Logical operators are used to **combine conditional statements**

Operator	Meaning	Example
and	Returns True if both the operands are true	x and y
or	Returns True if either of the operands is true	x or y
not	Return True if operand is false	not x

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Logical Operators

- Example:

```
x = True
y = False

print('x and y is',x and y)

print('x or y is',x or y)

print('not x is',not x)
```

Output:

```
x and y is False
x or y is True
not x is False
```

THANK YOU

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