Python class 4,

- ⇒ Strings → 1. Concatenation
 2. Slicing
- => Operators -

String Concatenation

Concat => joining/combining

String concat. => jaining your strings

- 1. Jaining Nome => First + Last
- a. Address => House no. + area + Street
- 3. URL → host post /____.

 dB connections

mm. "groge" .com

니.

Slicing of Stolngs

seq Sta List Vange Lupple

sto PYTHON
0 1 2 3 45
-6-5 -4 -3 =2-1

[-1]

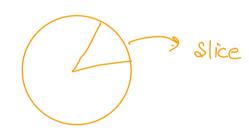
delhi. 33

<u>str</u>[-5] =

-5 + len = 1 (6) str[1]

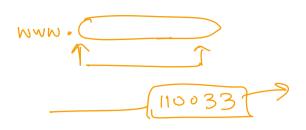
842[8] = 62201

Slicing



When we want a part/piece of your sto/11st





How to do slicing in python

[] -> indexing

[x:y]

2 => start index
y= end index -> (y-1)

PYTHON 012345

Even if start or end index are out of bounds. it returns empty string.

It goes till and index -1.

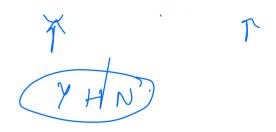
Step Value

how many characters to move forward/ hockword often the first chor is retrieved

P = P y T +10 N 1 ley default P[0:6:2] Ellive color) P T O

P[1:8:2]

P / T HON 0 1 2 3 4 5 6 7 8



Sign of your also value dyines where to go. = direction

5 (3) 3 (9) 20 27

0000

OPERATORS

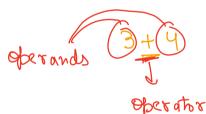
What are operators =) special symbols which do computation on values

Type s. :-

- a) Arithe matic
- W) Companision/Relational
- c) Logical
- d) Assignment
- e) Identily
- 8) Membesship

operands

operators



Arithematic

- + Addition
- Subtraction
- * multiplication
- / division

7

our operator behaviours
changes haved on
operands
Pythylon"

- % Modulus
- ** Exponentiation
- / Floor division

not rounding of

$$\Rightarrow$$
 in leg ral post / Quetient $29//10 = 2$ not $3 \text{ not } 3.29$

| Relational operators |
|--|
| get relation 14/10 |
| 2 things getting compared They give either ToxF as output |
| > greater than < less than |
| == Equal To >= Greater than or equal to <= Less than or equal to |
| ! = Not equal to |
| Can be used to compare diff. ofterands |
| 6>8 => |

Relational operators in strings "Unicode" is composed

Lexigraphical Composission

abc

900

no multiplication

Chaining of relational operators

=) Chaining allowed

1<2<3

Python evaluates each & every expression individually & rewres T if all True ele folse

imbot = ()

10 < input < 20

6 >5

5 < 6 > 7 5 < 6 > 7 = 6 > 7 = 7

=> False

Special Behaviour of = = & !=

Both type & value are combored $1 == 117 \quad \text{False} \quad \text{sto & int}$ $97 == 107 \quad \text{Folse}$ $1 == 3 \quad \text{tove} \quad \text{if hyperare diff.}$

Logical Operators

and ox not

to combine 2 or more equations $\frac{a>b>c}{}=) a>b (and) b>c$

with numericals & Booleans > casy

- a) None, O, III, O.O => False

 When applied to non boole on Types

 Stoing

 integer

 list
- c) If first value is folse,

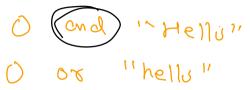
 then logical and

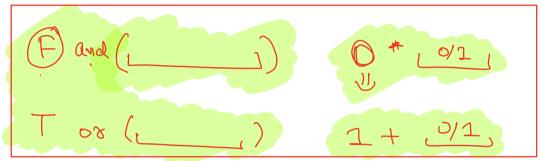
 returns first value

 else it returns 2nd value

 'Sochin' and 10

d) If first value is True,
then logical ox returns first val
else returns 2nd value





e) not operator on non-boolean hyper

False ij its True

True ij jalse

not 0