09-09-25

Identation:-

* python relies on Identation (whitespace at the beginning of line) to define the scope in the code

* Because other programming Language often use Curly brackets

Eg:-

```
a = 33
b = 200
if b > a:
    print("Greater")
```

→

```
if b > a :
    print("Greater")
```

elif:- If the previous condition were not true, then it will try on work.

Eg:-

```
a = 33
b = 33
if a > b:
    print("Greater")
elif a == b:
    print("Equal")
```

O/p: Equal.

Short Hand if:-

If only one statement to execute, we can put if on the same line

Eg:-

```
if a>b : print("a is Greater")
```

Short Hand if. else:

One line if else statement

```
a= 2
b= 330
print("A") if a>b else print("B")
```

||,

This is called Ternary Operators or Conditional Expressions

Eg for Logical Operator:-

AND

1.
```
a= 200
b= 33
c= 500
if a>b and c>a:
    print("Both Condition is True")
```

O/p : Both Condition is True.

2. OR

```
a=200
b= 33
c= 500
if a>b or a>c:
```

point ("Atleast One Condition is True")

Olp:- Atleast One Condition is True

3. NOT:

```
a= 10
b= 100
if not a>b:
    point ("a is not greater")
```

Nested if Eg:-

```
x= 41
if x>10:
    point ("Above ten")
    if x>20:
        point ("above 20!")
    else:
        point ("but not above 20!")
```

olp:

Above ten

Above 20!