Indentation

its positive number another statement 3rd statement

print('x is even')

print('x is odd')

print('x is less than y')

print('x is greater than y')

print("A is greater than B : ",A) print("this is another statement")

print("this is else statement")

its Else Blob: A is Less Than B: 66

A is Greater than B And A value is: 99

print('this is else')

print("a value is 200")

a value is less than 200

print("a value is more than 200")

print('a value is less than 200')

print('last else statements')

print("b is greater than a")

print("a is greater than b",a)

print("b is greater than a")

print("b is not greater than a")

if a < b: print("a is greater than b")</pre>

A is greater than b Statement 700

· One line if else statement, with 3 conditions:

In [21]: #Test if a is greater than b, AND if c is greater than a

print('Both conditions are not True...')

print("One of the conditions is True")

print('this is sample pass statement')

print("At least one of the conditions is True")

print("Both conditions are True")

Both conditions are not True...

print("else statement ")

One of the conditions is True

this is sample pass statement

This technique is known as Ternary Operators, or Conditional Expressions.

print("a and b are equal")

a is greater than b 200

b is not greater than a

· Short Hand If ... Else

Short Hand If

b is greater than a

print('A value is Greater than B value : ',a)

print("its Else Blob: A is Less Than B : ",b)

print("b is greater than a and B Value is : " ,b)

print(' A is Greater than B And A value is : ',a)

#If statement, without indentation (will raise an error):

print("b is greater than a") # you will get an error}

The else keyword catches anything which isn't caught by the preceding conditions.

• If you have only one statement to execute, you can put it on the same line as the if statement.

• If you have only one statement to execute, one for if, and one for else, you can put it all on the same line:

print('A is greater than b Statement',a) if a > b else print('a is less than b Statement',b)

simply allows to test a condition in a single line replacing the multiline if-else making the code compact.

print("A Greater Than B : ",b) if a > b else print("its a equal to B =") if a == b else print("B is less Than A",a)

• if statements cannot be empty, but if you for some reason have an if statement with no content, put in the pass statement to avoid getting an error.

• Ternary operators also known as conditional expressions are operators that evaluate something based on a condition being true or false. It was added to Python in version 2.5. It

• The elif keyword is pythons way of saying "if the previous conditions were not true, then try this condition"

print("this 3rd statement")

print('x and y are equal')

if x%2 == 0:

else :

x is odd

elif x >y:

x is less than y

this is else statement

y=66 **if** x <=y:

else:

a=500 b=800 if A<b:</pre>

else:

b=66 if a>b:

else:

b = 88 **if** b > a:

else:

a = 33 b = 200**if** b > a:

Elif

if a**==**200:

elif a>200:

elif a<200:

else:

Else

b = 33**if** b > a:

else:

b = 33 **if** b > a:

elif a **==** b:

In [17]: a = 200

In [18]: a = 200

In [0]: a=99

In [19]: a = 700

In [20]: a = 400

b = 400

b = 563c = 670

else:

b = 33c = 500

b = 33c = 500

if a<10: pass

else:

a=55

else:

b = 200

if b > a: pass

In [27]: a = 33

if a > 10: pass

pass

The pass Statement

In [22]: a = 200

In [24]: a = 200

In [25]: a=55

In [26]:

its a equal to B =

if a > b **and** b > c:

if (a > b **and** a > c):

else statement

if a > b **or** a > c:

b=88

In [16]: a = 100

In [7]: **x=55**

In [8]: x=10

In [10]: **A=900**

In [12]: a=33

In [13]: a = 99

print('its positive number') print('another statement')

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• Python relies on indentation (whitespace at the beginning of a line) to define scope in the code. Other programming languages often use curly-brackets for this purpose.
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print('3rd statement') else: print('its Negative number')

50 is greater than 40 In [6]: a=-2 **if** a<0:

if var1>40: print('50 is greater than 40')

In [4]: var1=55 # True or False