



Phd Candidate @ IAUM

Conditions



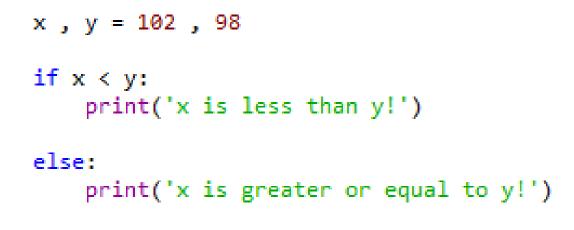
Python for beginners

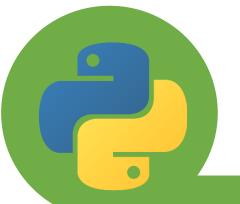
- Python relies on indentation, usingwhitespace, to define scope in the code
- Do not forget ':' at the end of condition

```
x , y = 56 , 98

if x < y:
    print('x is less than y!')</pre>
```

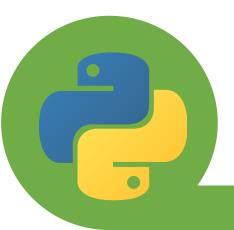
x is less than y!





x is greater or equal to y!

```
x = int(input("Please enter an integer: "))
if x < 0:
    x = 0
    print('Negative changed to zero')
elif x == 0:
    print('Zero')
elif x == 1:
    print('Single')
else:
    print('More')</pre>
Please enter an integer: 5
More
```



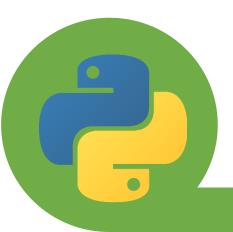
```
words = ['apple' , 'banana' , 'cherry','orange','straberry']

if 'cherry' in words:
    print('exist!')

exist!

if 'onion' not in words:
    print('not exist!')

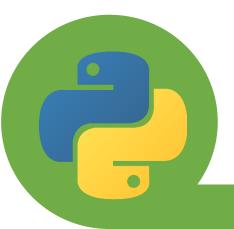
not exist!
```



```
words = ['apple' , 'banana' , 'cherry','orange','straberry']
print('exist') if 'onion' in words else print('not exist')

not exist

a , b = 90 , 80
print('a is greater!') if a > b else print('equal!') if a==b else print('a is less than!')
a is greater!
```



Odd and even numbers

```
for n in range(1, 10):
    if n % 2 == 0:
        print (n,'is even')
    else:
        print(n,'is odd')

1 is odd
2 is even
3 is odd
4 is even
5 is odd
6 is even
7 is odd
8 is even
9 is odd
```

non-prime numbers

```
for n in range(2, 22):
for x in range(2, n):
   if n \% x == 0:
        print(n, 'equals', x, '*', n//x)
        break
  4 equals 2 * 2
  6 equals 2 * 3
  8 equals 2 * 4
  9 equals 3 * 3
  10 equals 2 * 5
  12 equals 2 * 6
  14 equals 2 * 7
  15 equals 3 * 5
  16 equals 2 * 8
  18 equals 2 * 9
  20 equals 2 * 10
  21 equals 3 * 7
```