

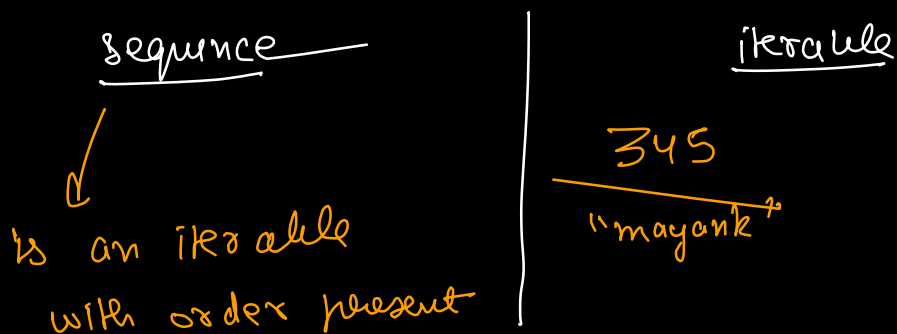
Welcome Back all

Agenda ÷

1. For loop thing
2. Nested loop
3. Range
4. Questions
5. Functions

For loop

works on sequence/iterable



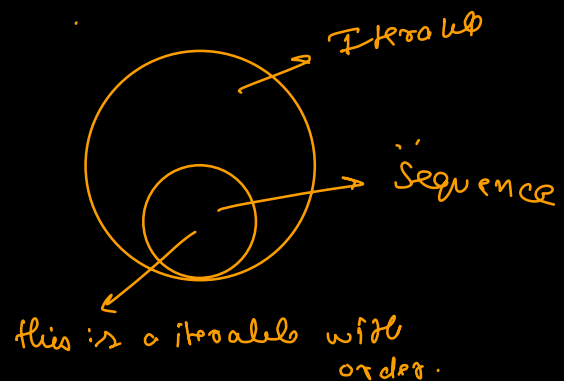
↑
order is there
Can pick one by
one

↑
no order
Can pick one by
one

Sequence is an iterable with order

for loops works on iterable:

every sequence is an iterable
but every iterable is not a sequence



Range function

range() function is an inbuilt fn.
which returns a range object.

function is very useful in generating
sequence of numbers in form
of list.

It takes 3 arguments

range (start , stop , step)

range (5) 0 ... n-1

range (2, 5) 2 ... 4

In for loop whenever we have to iterate over a sequence of numerical value , we can use range.

Pattern Question

Rows (5)
Iterate using outer loop

Columns
Iterate using inner loop
In each iteration columns size increase till it reaches to the size of row
Print number or star in each iteration of inner loop

```
rows = 5
# outer loop
for i in range(rows+1):
    # nested loop
    for j in range(i):
        # display number
        print(i, end=" ")
        # new line after each row
        print("\n")
```

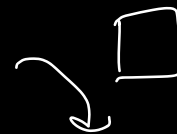
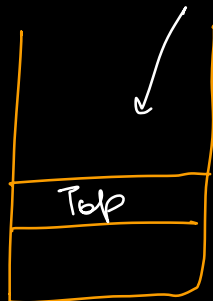
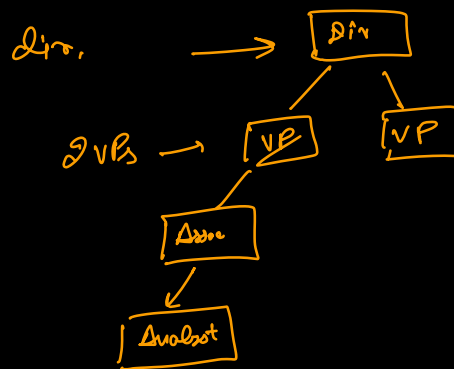
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Data Structure

way to store your data i.e give
structure to your data

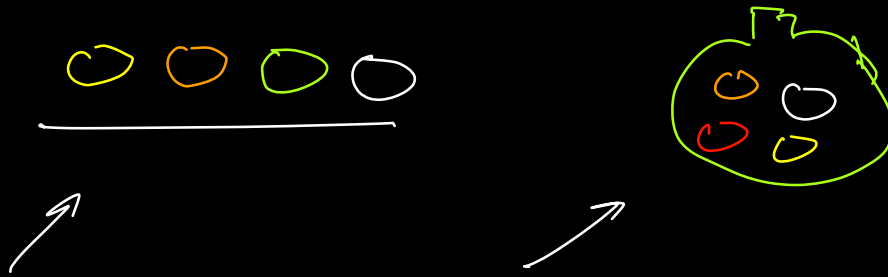
↓
int =
float =
bool =

↓
str =



{ 1st, 2nd, 3rd, 4th }





list [] → it is mutable

tuple () → not mutable

set { } → doesn't allow duplicate
& not ordered

dictionary { }

