Type Cashing -

Implicit Type Caoting

Python automotically does this without programmers in leavention.

Don't need any programmer inkrvention

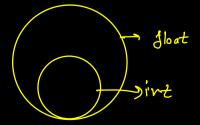
Eq. 5 +
$$10.5 = 15.5$$

int floot \Leftarrow automotically

=) data type int is of converted internally
to larger one to avoid data loss
data type

Lorger data type \Rightarrow int gloot bool T-1F-0 f int

5+10.5.3



Explicit Type Casting

When done explicitly by the programmer

int ()

=) takes a dota type & convert it

```
int(5+0j)

TypeError

Cell In[34], line 1

---> 1 int(5 +0j)

TypeError: int() argument must be a string, a bytes—like object or a real number, not x'

int('00010')

10

int('26.3363')

ValueError

Cell In[39], line 1

---> 1 int('26.3363')

ValueError: invalid literal for int() with base 10: '26.3363'
```

takes an import & changes it to float

$$\frac{\text{Bool}}{\text{F}} \Rightarrow 0 , 1$$

takes a number & change to bool

Only
$$0 \ 0.0 \ axe false 0.0 -0$$

Only $0 + 0j$ is false $0.0 + 0j$
 $0.0 + 0j$
 $0 + 0.0j$
 $0.0 + 0.0j$
 $0.0 + 0.0j$

Strings

101 10.0' 10+0jl all True

O, O.O, O+Dj, Dj

(1), or string with length O

[], & 3, ()

all above one False

Storing

= any data type to storing

= no special case

input () takes anything you enter as a string.

Shing Concoknotion

If we have two strings & we do't'

=) strings get concohenated.

Examples.

2. First name + Lastname

2. Address.

3. 001.

(Toue, false)

Slicing

548

Cent its valid on all <u>sequenting</u>

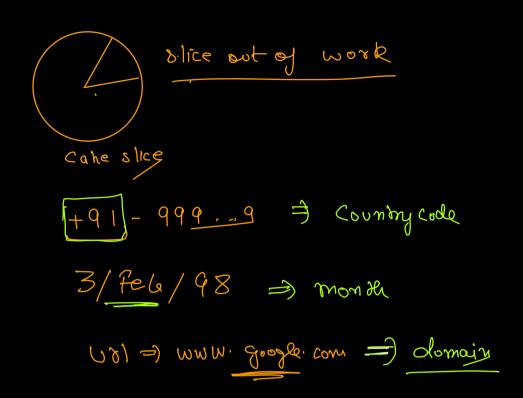
list

range

toppe

$$81[-3] = H$$

 $81[1] = A$

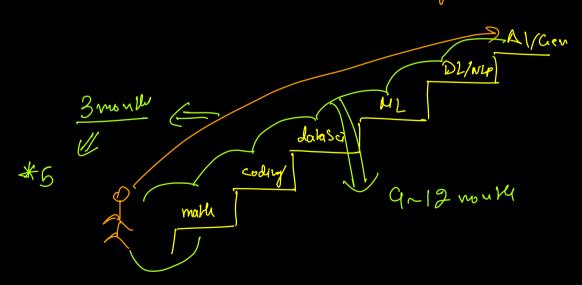


- =) Slicing in hulling out a part from a sequence
 - => [] => this is used jor sliving
-) [stort : end]

- => End takes one hoom before the specified index.
- =) [start:] dejault end is len
 [:end] dejault start is

end > len =) end = len

a >= 6 for hasilive step, start slop it is always empty



Step/Stride [default is1]
0:3
[start: stop: step]