Start with example datetime class.

Ly show exemple of object construction
Ly attribute access (day, month, ...)
Ly method access (strftime (1%A %y-%--%d'))
Ly type() on varous things to understand them

Two focuses today! O How to make classes (custom types)

2) why one could want to do this in python, not a strictly on language?

Us will move back and forth

1 Making a minimal class Widget

class Widget!

No go over constructing widgets, adding attributes, modifying (accessing attributes, and deleting them.

Also do bool(), str(), show that int() doesn't work, not operations fail, etc...

2) A motivating example to learn more - dice sets

Lets make a 'dice' module with the following functions

def roll (number, sides, base = 1)

The numbering on the sides increasing by base (give examples)

def soil-many (attempts, number, sides, base = 1)

(do many rolls of a set and add them up

def count_attempts (value, attempts, number, sides, base=1, max tries=100000)

(roll until 'value' has been attained or raise an

exception after max tries.

Now implement these as finetions using random

Introduce class methods by implementing the above in lower out count_attempts a Dice Set class. (mention canel case!) this is homework!

- First do this without on _-init-- just explain
first parameter (usually soft).

- Then add an --init - Explain object initialization.

- Mention Setter (getter issue, why not needed in python generally.

Class attributes and resolution order

- Add a class attribute to widget class show how the an object attribute will shadow this when accessing the attribute,

Less and rangespace.

go over --str-- and --repr-special mothods!!