Python Programming

1. SQL (more sophisticated language)

- Object oriented programming (More abstract)

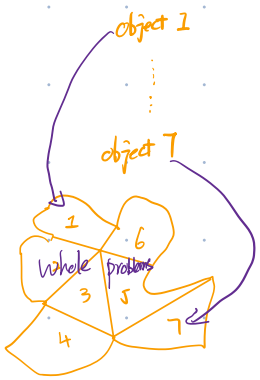
1. more methods on lists
   (1) list.append( )
   (2) list.extend( )
   (3) list.insert ( ) Insert an item at a given position
   (4) list.remove ( ) remove the first item from the list
   (5) list.pop ( ) remove the item at the given position in the lists

2. Object Oriented

(1) Defination : • A program is made up of many cooperating objects

• Instead of being the "whole programming" each object is a little "Island" within the program and cooperatively working with other objects.

• A program is made up of one or more objects working together — objects make use of each other's capabilities.



(2) Object

☆ Def : An object is a bit of self-contained code and Data

Understanding : Objects are used to handle the problems that are seperated in different parts. Objects designed by inventors aim to solve some parts of problems.

Class - A template, like the bulepring or factory.
Method or Message - A defined capability of a class
Field or attribute - A bit of data in a class
Object or Instance - A particular instance of a class

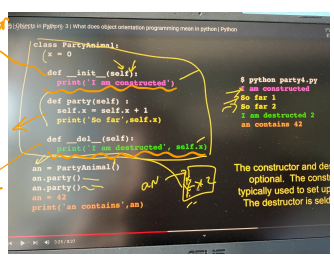
(3) The new function "dir( )" command lists capabilities
• methods that are available in parenthesis.

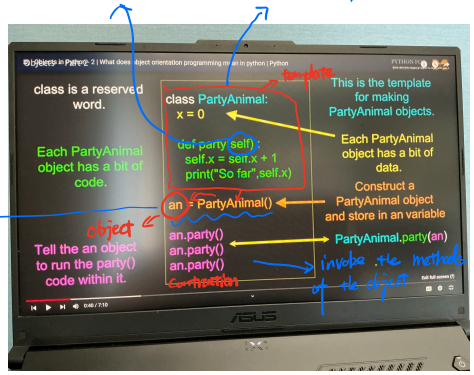
- Object Lifestyle

(1) objects are created, used and discarded.
(2) • At the moment of creation (constructor) → often used
• At the moment of destruction (destructor) → seldom used

Code in Python: constructor

Constructor : __init__
Destructor : __del__



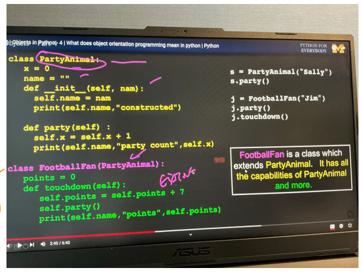


Steps: (1) First create a class named "Party Animal"
(2) defined a code use for object
(3) created a object
(4) The an.party( ) is like the loops, and run the step (2) triple times.

- Inheritance

Parent class —inherit→ subclass

- subclasses can remain the functions and templates of parent classes.



extension