1. **OOPS** 3 main segments -> Encapsulation [Normal or Abstraction], Inheritance, Polymorphism

Encapsulation -> encapsulating stuff that are similar into a class [remember to add “self” in the function before variables]. These functions are now called methods [methods = functions in a class]. *An object is basically a photocopy of the class*Constructor [\_\_init\_\_(self):] a constructor is automatically called. Used to store the data to stop repeatedly calling parameters [try not to use] *Abstraction* is basically what you do when you use libraries [import -> file.class etc etc] All libraries use @staticmethod because you don’t need to make object just call the function

Inheritance -> Normal [*w/o grandparent*], Multilevel [*with grandparent*], Multiple[hard to manage because of redundancy(Grand->Mom/Dad->Child)]

DocStrings -> basically a special way of commenting used for documentation purposes (“”” …. “””) Just do it online but this is the premise [super simple]

Exceptions -> Compile time [Syntax error] and Runtime [logical error]