# Classes

* Classes are about organization and modularity.
* Classes are a *mold* of something. **KISS**

# Instances

* An **instance** is only one instantiation of a class that occupies memory and has data elements.
  + This is what ***‘self’*** refers to when we deal with these class instances
* An **object** is everything you can **operate** on
* **We have one class of a given type. And an unlimited number of instances of that class.**

# Attributes

* An ***attribute*** is either
  + A **variable**: memory **information** about the class itself **OR** an instance of it
  + A ***method***: a **behavior** that can be applied to the object
    - These are the ***‘callable’*** attributes of **Python objects**
    - **Objects** with these type of attributes **allow** the use of **‘( )’** which we can later use to pass parameters.
    - **Methods are called on behalf of the object. Then, execute changes on object data.**

# END OF NOTES