prelab07_ee364b13.pdf:

1   Explain the difference between a **class** and an **object.**

     Class is the type of objects, and object is like a specific
     variable with its own characteristics. Object is an instance of a
     class.

2   What is the primary difference between a **member variable** and a
     regular variable?

     Member variable represents an object's state and it belongs to
     that obejct only. Regular variable is general variable used in
     the current coding scope.

3   What is the primary difference between a **member function** and a
     regular function? Why do member functions require the self
     argument?

     Member function belongs to the object and can be called only by
     the object. Regular function appears outside the class and serves
     for the program. self argument is a reference to the specific
     object that is currently calling the member functions.

4   What relationship is expressed by inheritance? How is this
     different from composition?

     IS-A relationshop. Derived object inherits properties and
     functions from the base objects. Composition has a HAS-A
     relationship. An object can store other objects as its member
     variables.

5   What is the purpose of the constructor?

     To create an instance of a class (i.e. to create an object)

6   What is the special function name used when defining a
     constructor in Python? How many times is an object's constructor
     called during its lifetime?

     __init__(self,…)
     only once (when it is being created)