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

A class is the definition of an object, it specifies member functions and member variables that belong to an object

An object is an instance of a class

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

Member variables represent the state of an object, when accessing a member variable from outside of the class:

 $ObjA.my_var = 10$

For a regular variable, my_var=10 is enough.

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

Member function includes a special "self" argument, and invoking it requires format like: Var. Function (args)

To differentiate between all of the potential objects that exist a reference to a specific object is provided

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

Objects can inherit properties and functions from other objects, for example, bad student is a student Objects can be composed of other objects, a car has an engine

5.What is the purpose of the constructor?

A constructor is called to instantiate a class

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

It is called only once