1 -The difference between a class and a module in python is that a class is used to define a blueprint for a given object, whereas a module is used to reuse a given piece of code inside another program.

2 - To create instances of a class, you call the class using class name and pass in whatever arguments its \_\_init\_\_ method accepts.

3-Class attributes belong to the class itself they will be shared by all the instances. Such attributes are defined in the class body parts usually at the top, for legibility.

4-Instance attributes are defined in the constructor. Defined directly inside a class. Defined inside a constructor using the self parameter

5-The self parameter is a reference to the current instance of the class, and is used to access variables that belongs to the class.

6-To perform operator overloading, Python provides some special function or magic function that is automatically invoked when it is associated with that particular operator. For example, when we use + operator, the magic method \_\_add\_\_ is automatically invoked in which the operation for + operator is defined

7-For an operator to be overloaded, at least one of the operands must be a user-defined object. Only existing operators can be overloaded. You cannot overload new operators.

8- A very popular and convenient example is the **Addition (+) operator**.

9-inheritance and polymorphism