Python advance assignment 5:

Q1) when derived class inherits features form more than one base class, it is called multiple inheritance.

Q2) delegation is object oriented design technique. If we want to change the behaviour of a method in a class, we can create new class. Then we can use this redefined method from new class. All other methods would be delegated to old class or old class’s superclass.

Q3) same object can be accessed through different classes. This is because there exists a composition relation between these classes. Thus complex types are created by combining objects of different classes. Then class composite can contain an object of another class component.

Q4) In bound method, first argument is instance of class. This allows us to access variables and functions. In new versions of python, all functions in a class are default bound methods. That is why we use ‘self’, ‘cls’ etc.

Q5) to prevent namespace collisions in instances.