Q1. What is the meaning of multiple inheritance?

When a class inherit from more than one parent class, a multiple inheritance has occurred.

Q2. What is the concept of delegation?

When an object (delegate) responsible to do a task on behalf of other object (delegator) the delegation has happened. The delegator passes requests for certain actions to the delegate, which then performs the actions on behalf of the delegator. When we don’t want to define a method again or inherit it from parent class we can use this approach.

Q3. What is the concept of composition?

It is a method to make relationship between two classes, a composite class can have one or more object of other class as component instances.

Q4. What are bound methods and how do we use them?

Bound methods define in a class and they bound to the class instead of defining. They take an instance of their class along with other arguments as their parameters. If a function is an attribute of a class and access through instance is a bound method. The first parameter of it should be an instance of class which is mostly ‘self’ but can have any other name.

Q5. What is the purpose of pseudo private attributes?

When we have different class in a class tree which are related together, if we have an attribute or method with same name in some of the classes in class tree, when an instance call that attribute or method the last one will return, to avoid this we can use \_\_ prefix before name of attribute or method, in this case when we call it, name of the class will added to instance and it will return exact value of that attribute in that specific class. It is a way for making them private but it does not mean we cannot access them same as private attribute in other languages.