Q1. What is the meaning of multiple inheritance?

Ans:

In multiple inheritance, a class *inherits from two or more super classes*.

It inherits the *methods and variables* from all **super classes**.

class Parent1:  
 pass  
  
class Parent2:  
 pass  
  
class Parent3:  
 pass  
  
class Kid1(Parent1, Parent2, Parent3):  
 pass

If you create an object, it has all methods and variables from the classes.

Q2. What is the concept of delegation?

The delegation pattern is an object-oriented design pattern that allows object composition to achieve the same code reuse as inheritance.

Q3. What is the concept of composition?

**Composition** is a concept that models a **has a** relationship. It enables creating complex types by combining objects of other types. This means that a class Composite can contain an object of another class Component. This relationship means that a Composite **has a** Component.

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

If a function is an attribute of class and it is accessed via the instances, they are called bound methods. A bound method is one that has ‘[self](https://www.geeksforgeeks.org/self-in-python-class/)‘ as its first argument. Since these are dependent on the instance of classes, these are also known as instance methods.

The methods inside the classes would take at least one argument. To make them zero-argument methods, ‘[decorators](https://www.geeksforgeeks.org/decorators-in-python/)‘ has to be used. Different instances of a class have different values associated with them.

For example, if there is a class “Fruits”, and instances like apple, orange, mango are possible. Each instance may have different size, color, taste, and nutrients in it. Thus to alter any value for a specific instance, the method must have ‘self’ as an argument that allows it to alter only its property.

Q5. What is the purpose of pseudo private attributes?

Python has a private definition method that is to add a double underscore in front of the variable or method, but I tell you, this is actually python's pseudo-private.