Q1. What is the meaning of multiple inheritance?

Ans: it’s a feature of object-oriented programming in python language that allows a class to inherit properties and methods from multiple parent class. In multiple inheritance class can inherit from two or more parent class and thus it can have access to properties and methods of all its parent classes.

Q2. What is the concept of delegation?

Ans: in python, delegation refers to the process of forwarding a method call or attribute access from one object to another. This is often achieved using the’\_\_getattr\_\_’ and ‘\_\_setattr\_\_’ methods. Which are called automatically when an attribute is accessed or set.

Q3. What is the concept of composition?

Ans: it’s the ability to create complex objects by combining simpler objects of components. It is a way of building objects that promotes code reusability and reduces the complexity of individual objects.

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

Ans: it’s a method that is associated with a particular instance of a class. When a method is called on a instance of a class, the instance is passed automatically as the first argument to the method, which is conventionally named ‘self’. This allows the method to access and modify the attributes of the instance.

Q5. What is the purpose of pseudo private attributes?

Ans: the purpose of pseudo private attributes in python is to provide a way for classes to hide implementation details and to prevent external code from accidentally modifying or accessing internal data structures.