Q1. What is the meaning of multiple inheritance?

Answer : Multiple inheritance is a feature in object-oriented programming languages that allows a class to inherit from more than one base class. In other words, a class can inherit attributes and behaviors from multiple parent classes simultaneously.

Q2. What is the concept of delegation?

Answer : The concept of delegation in object-oriented programming refers to a design pattern where an object delegates certain responsibilities or tasks to another object. Instead of implementing the behavior itself, the delegating object forwards the request to the delegate object to perform the required action.

Q3. What is the concept of composition?

Answer : The concept of composition in object-oriented programming refers to a design principle where complex objects are built by combining or composing simpler objects. It involves creating a new class by combining one or more existing classes, forming a "has-a" relationship.

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

Answer : Bound methods are a concept in object-oriented programming that refers to methods bound to a specific instance of a class. When a method is bound, it is associated with an instance of the class, allowing it to access the instance's attributes and perform operations specific to that instance.

Q5. What is the purpose of pseudoprivate attributes?

Answer : Pseudoprivate attributes, also known as name mangling, are a feature in Python that provide a way to simulate private attributes in a class. The purpose of pseudoprivate attributes is to indicate that certain attributes are intended for internal use within the class and should not be accessed or modified directly from outside the class.