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**ASSIGN : 05**

Q1. What is the meaning of multiple inheritance?

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

Q2. What is the concept of delegation?

The concept of delegation in object-oriented programming refers to a design pattern where an object forwards a task or responsibility to another object to perform on its behalf. Instead of implementing the functionality directly, the delegating object maintains a reference to another object, known as the delegate, and delegates the task to it.

Q3. What is the concept of composition?

The concept of composition in object-oriented programming refers to the practice of building complex objects by combining or composing simpler objects. It is a way of creating relationships between objects where one object contains or is composed of other objects as its parts.

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

In Python, a bound method is a method that is associated with an instance of a class. When a method is accessed through an instance, it becomes a bound method, which includes a reference to the instance itself as the first argument (typically named self).

Q5. What is the purpose of pseudoprivate attributes?

In Python, pseudoprivate attributes, also known as name mangling, are a naming convention used to make attributes "private" within a class, meaning they are intended to be accessed only from within the class itself. Pseudoprivate attributes are denoted by prefixing them with double underscores (\_\_).