**1. What is the concept of an abstract superclass?**

**Answer 1:** The concept of an abstract superclass refers to a class that is designed to be subclassed but not instantiated itself. It often contains abstract methods, which are methods without a complete implementation, leaving it to the subclasses to provide concrete implementations. Instances of abstract superclasses cannot be created.

**2. What happens when a class statement's top level contains a basic assignment statement?**

**Answer 2:** When a class statement's top level contains a basic assignment statement, it defines a class-level attribute. This attribute is shared among all instances of the class, and it can be accessed using the class name or any instance of that class.

**3. Why does a class need to manually call a superclass's \_\_init\_\_ method?**

**Answer 3:** A class needs to manually call a superclass's \_\_init\_\_ method when it wants to invoke the constructor of its superclass. This is typically done using the super() function within the subclass's \_\_init\_\_ method. It ensures that the initialization code in the superclass is executed before the subclass's initialization.

**4. How can you augment, instead of completely replacing, an inherited method?**

**Answer 4:** To augment, rather than completely replace, an inherited method, you can override the method in the subclass and then call the superclass's method using super(). This allows you to add extra functionality while preserving the behavior of the inherited method.

**5. How is the local scope of a class different from that of a function?**

**Answer 5:** The local scope of a class is different from that of a function in terms of accessibility and lifespan. In a class, variables defined within methods are accessible throughout the entire class (instance variables). In a function, variables defined within the function are only accessible within that function (local variables). Additionally, class variables persist as long as the instance exists, while function local variables are created and destroyed with each function call.