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

ANS)An abstract superclass is a class that calls a method, but does not inherit or

define it—it expects the method to be filled in by a subclass. This is often used

as a way to generalize classes when behavior cannot be predicted until a more

specific subclass is coded. OOP frameworks also use this as a way to dispatch to

client-defined, customizable operations.t.

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

ANS) Classes can support iteration by defining (or inheriting) \_ \_getitem\_ \_ or \_ \_iter\_ \_.

In all iteration contexts, Python tries to use \_ \_iter\_ \_ (which returns an object that

supports the iteration protocol with a next method) first: if no \_ \_iter\_ \_ is found

by inheritance search, Python falls back on the \_ \_getitem\_ \_ indexing method

(which is called repeatedly, with successively higher indexes).

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

ANS) . A class must manually call the \_ \_init\_ \_ method in a superclass if it defines an

\_ \_init\_ \_ constructor of its own, but must still kick off the superclass’

construction code. Python itself automatically runs just one constructor—the

lowest one in the tree. Superclass constructors are called through the class

name, passing in the self instance manually: Superclass.\_ \_init\_ \_(self, ...).

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

ANS) To augment instead of completely replacing an inherited method, redefine it in a subclass, but call back to the superclass’ version of the method manually from

the new version of the method in the subclass. That is, pass the self instance to

the superclass’ version of the method manually: Superclass.method(self, ...)

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

ANS) This means your function is a property of the scope object. So you can use it in your controller , html page even in your app. it can be referenced in different modules in the same app. ... the main difference is i nwhich scope the function belongs to and where all you can reference the function.