- Q1. What is the difference between getattr and getattribute ?
 - A key difference between __getattr__ and __getattribute__ is that __getattr__ is only invoked if the attribute was not found the usual ways. __getattribute__ is invoked before looking at the actual attributes on the object, and so can be tricky to implement correctly. You can end up in infinite recursions very easily.
- Q2. What is the difference between properties and descriptors?
 - Descriptors are a low-level mechanism that lets you hook into an object's attributes being accessed.
 - Properties are a high-level application of this i.e properties are implemented using descriptors.
- Q3. What are the key differences in functionality between __getattr__ and __getattribute__, as well as properties and descriptors?
 - A key difference between __getattr__ and __getattribute__ is that __getattr__ is only invoked if the attribute was not found the usual ways. It's good for implementing a fallback for missing attributes and is probably the one of two you want.
 - __getattribute__ is invoked before looking at the actual attributes on the object, and so can be tricky to implement correctly. You can end up in infinite recursions very easily.
 - New-style classes derive from object, old-style classes are those in Python 2.x with no
 explicit base class. But the distinction between old-style and new-style classes is not the
 important one when choosing between getattr and getattribute.
 - Descriptors are a low-level mechanism that lets you hook into an object's attributes being accessed.
 - Properties are a high-level application of this i.e properties are implemented using descriptors.