Python Advanced Assignment 10

1. What is the difference between	getattr	and <u>geta</u>	attribute	?
Ans:getattribute is used to find an attribute of a	a class. It raises an Attrib u	u teError of it fails to fir	nd an attribute of a class.	
getattr is implemented latter if AttributeError is ge	nerated bygetattri	bute , but for this	getattribute ar	nd
getattr both has to be defined in same class. If no	attribute is found,get	tattr returns a de	fault value. So key differe	ence
is thatgetattr is called for attributes that don't actu	ually exist on a class.			

2. What is the difference between properties and descriptors?

Ans: The differences between Properties and Descriptors is:

Properties: With Properties we can bind getter, setter and delete functions together with an attribute name, using the built-in property function or @property decorator. When we do this, each reference to an attribute looks like simple, direct access, but involes the appropriate function of the object.

Descriptor: With Descriptor we can bind getter, setter and delete functions into a seperate class. we then assign an object of this class to the attribute name in our main class. When we do this, each reference to an attribute looks like simple, direct access but invokes an appropriate function of descriptor object.

3. What are the key differences in functionality between getattr and getattribute, as well as properties and descriptors?

Ans: The Key Differences between getattr, getattribute, Properties and Descriptors are:

getattr: Python will call this method whenever you request an attribute that hasn't already been defined

getattribute: This method will invoked before looking at the actual attributes on the object. Means, if we have **getattribute** method in our class, python invokes this method for every attribute regardless whether it exists or not.

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