**ASSIGNMENT 10**

Q1. What is the difference between \_\_getattr\_\_ and \_\_getattribute\_\_?

Ans: \_\_getattribute\_\_ have the highest priority and \_\_getattr\_\_ method have the lowest priority. That’s why \_\_getattribute\_\_gets excecuted first whether, there is an attribute or not. Then if the function is not able to find the attribute \_\_getattr\_\_ method gets called.

Q2. What is the difference between properties and descriptors?

Ans: Descriptor is the class of a program which contains \_\_get\_\_,\_\_set\_\_ and \_\_delete\_\_ methods for class attributes, whereas, properties have already defined \_\_get\_\_, \_\_set\_\_ , \_delete\_\_ and doc methods inside it. Therefore, it becomes easier to implement properties to attributes rather than creating a whole descriptor class.

Q3. What are the key differences in functionality between \_\_getattr\_\_ and \_\_getattribute\_\_, as well as

properties and descriptors?

Ans: \_\_getattribute\_\_ method will get called whenever we want to access an attribute of the class, whereas, \_\_getattr\_\_ method will only get called if the attribute we are calling is not present or \_\_getattribute\_\_ method raises an AttributeError.

Properties are advance use of descriptors which are already included and defined in python library. Descriptors are class containing get, set or delete method for the attributes which helps to access them.