**Assignment-1**

Q.1 => What is the purpose of Python's OOP?

**Answer :-**

**In python object oriented programming is a programming paradigm that use object and classes in programming.**

**It aim to make real world entity like inheritance, polymorphism, encapsulation etc in the programming.**

Q.2 => Where does an inheritance search look for an attribute?

**Answer :-**

**An inheritance search look for an attributes first in the instance object and in the class the instance was created from, then in all higher superclasses, progessing from left to right.**

**The search stop at the first place of the attribute was found.**

Q.3 => How do you distinguish between a class object and an instance object?

**Answer :-**

**The class is a blue print.**

**The object is an actual thing that are built based on blue print.**

**The instance is a virtual copy of object.**

Q.4=> What makes the first argument in a class’s method function special?

**Answer :-**

**The calling process is automatic while the receiving process is not.**

**This is the reason of first parameter of function in a class must be the object itself.**

Q.5 => What is the purpose of the \_\_init\_\_ method?

Answer :-

**The \_\_init\_\_method lets the class initialize the object’s attribute and serves np other purpose.**

Q.6 => What is the process for creating a class instance?

**Answer :-**

**To create instance of class, you call the class using class name and pass in whatever arguments its \_\_init\_\_methods accepts.**

Q.7 => What is the process for creating a class?

**Answer :-**

**To create class, use the keyword class.**

Q.8 => How would you define the superclasses of a class?

**Answer :-**

**The class from which a class inherits is called parent class or superclass.**