**FSDS MAY BATCH 2022(Python Assignment -1)**

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Q1. What is the purpose of Python’s OOP?

Ans: The purpose of python’s OOP is that we can easily evaluate any problem by creating object as python is also a object oriented language. Some basic features which are included in OOPs are inheritance, polymorphism ,abstraction of data etc.

Q2. Where does an inheritance search look for an attribute?

Ans: An inheritance search look for an attribute in the following manner : Firstly it tries to find out the attribute in the instance object then afterwards it look from where that instance object was created and then tries to search in other superclasses, this whole process runs from left to right by default and if the attribute is found at first place while searching it stops there only.

Q3. How do you distinguish between a class object and an instance object?

Ans: In Python programming ,When we construct a class in Python, a class object is produced, therefore whenever Python discovers a class statement throughout the entire programme, it generates a class object and gives a name to that object, i.e. class name.

In case of Instant object, When we call a class, an instance object of the class from where the object was created is produced. When we call the above-mentioned class, it will generate an instance object similar to this.

Obj=class()

the above line creates an object and names it to **Obj**which is an instance of Class.

Q4: What makes the first argument in a class’s method function special?

Ans: First argument in a class’s method function is special since it always receives the instance object that is the implied subject of the method call. It is generally called 'self' by convention.

Q5: What is the purpose of the \_\_init\_\_ method?

Ans:The \_\_init\_\_method is basically used for initializing the objects state .If it is coded in any program Python calls it automatically each time an instance of that class is created.

Q6: What is the process for creating a class instance?

Ans: For creating class instance , we basically call the class using class name and pass in whatever arguments its *\_\_*init\_\_method accepts.

Q7: What is the process for creating a class?

Ans: There is a simple process for creating a class in Python :We just write class and then write the class name for example:

Class **Student**

Here the class name is Student of a particular class.

Q8: How would you define the superclasses of a class?

Ans: These are the classes from where we can inherit the strings.

For example:

Class Teacher(Students,Children)

In this example Students and children are the Superclasses and Teacher are subclass.