

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

Python help us to create Classes, Object and methods. Also, in python Language everything is Object and it supports Inheritance, Polymorphism, Encapsulation, Data Abstraction and Encapsulation

- The main purpose of object-Oriented programming is to reuse the code
- Dived the programs in to different parts for the Development of the Whole Projects
- Once the code is divided and reuse this helps the program to be efficient and easy to understand

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

An inheritance search looks for an attribute first in the instance object, then in the class the instance was created from, then in all higher super classes, progressing from left to right.

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

Whenever we create Class, a class object gets created which is only one and to access class object we use class Name and inside that we access variable which is called static member Variables

To Create a instance Variable we create object of that Class and we can create as much as instance object of a Class

Q4. What makes the first argument in a class's method function special?

Self in class represent instance

Self-keyword allows us to access variables, attributes, and methods of a class in Python.

Let's say in class if we don't want to make use of self-keyword in methods we make use of static methods

Q5. What is the purpose of the `__init__` method?

`def __init__ (self)` method is a magic method which act as a constructor whenever a class is created, we create a constructor
Also, when an object is created of the class it helps us to initialize the attributes of a Class

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

The Process of Creating a class instance is

Class - A class is a Blueprint or a Template from which object is created

Object – Object is a real world Entity

Eg :

class Person:

```
def __init__ (self, name, surname):  
    self.name = name  
    self.Surname = surname
```

```
p = Person('omkar' , 'Pomendkar')
```

Over here we have created p object for Person class

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Q8. How would you define the super classes of a class?

Super classes are those classes from which a sub class is created

For example: - Inheritance

```
class superclass:  
    pass
```

```
class subclass(superclass)
```

Over here subclass is inheriting property from superclass