class functions that begin with double underscome -- are do called special functions as shey can special meaning Of one prochicular interest is the -- init-() function. This special function gets called whenever a new object of that class is instantion to 1 instantiated. when we call a method of this abject as myoff method (ang 1, ang 2), this is automatically converted by Python into. ryplass. method (myobject, arg1, arg2) - theis is all the special self is about. ight mellhold

det -- init-- (soft, name, company)

self. norme = norme

self. company = company def show (self):

point (4 Hello my norme is 4 Selfanone I work in " + self . Compony +"

obj = OFG ("John", "OPPO") obj. show ()

The self parameter does not call it do be self, vou com use my other name instead of it. Here we change were sept to the word someone and the output will bette

-- init () -method The --init-- meshod is similar to constructors in c++ and Java Constructure are used to cinitializing une object is state. Like methods, a constructor also contains a collection of statements (i.e. that are executed at the sime of object creation. It muns as soon as one object of a class is instantiated. The method is of a class is instantiated. The method is useful to do any initialization you want to do with your abject. If Sample class with cinet method class Person: # init method or constructions def - init - (self , neve): self. nome = neme # Somple Hethod def say-hi(seff): e ies ) self. nome point ('Hello, my on p = Person (\*Wikhi()) p. say hic) Output Hello, my name is Nikhel Python has a particular method called -- stoshal is used to define how a class abject should be supresented as a storing. When a class object is used to create a string using the built-in function point () and str (), whe -- stole-- () Fund is automatically used. Pour con after how défining the --str-- () mathod.

class GFGi def \_\_init\_- (self, name, company) self nome = name self company = consony def --str--tself); return fung nome is & self. nome of med on I work in & self company ?! my-05 = C1FG ("John", "OPPO") point (my-obj) Justput S My nome in John and I work in OPPO. Instance Variables Instance vasciables are for data, unique to each instance and class vouables are for attributes and methods shared by all instruces of the

Class Inspener variables are variables celose

value us assigned inside a constructor or method with self whereas class variables are variables

vehose value is assigned in the class. For able inside method or constructor are doss called instance.

00PS

Modularity in DOP refers to grouping components with related functionality into a single unit.

This helps in robustness, readability mal