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```
#oops:object oriented programming language
#in python everything is an object
#class-it is blue print or plan
#class represent properties (attributes) and methods(actions) of a object
#object is realworld entity
class dog:
    name='breed dog'
    color='black'
    gender='female'
    age=12
obj=dog()
print(obj.name,
obj.color,
obj.gender,
obj.age)
```

➞ breed dog black female 12

```
#using format
class employee:
    id=2
    name='sharma'
    branch='datascience'
    age='25'
    a="my name is {},my id is {},my branch is {} and my age is {}"
    b=a.format(name,id,branch,age)
obj=employee()
obj.b
```

➞ 'my name is sharma,my id is 2,my branch is datascience and my age is 25'

```
#__init__ method used for initialization the attributes of every class
#self keyword used for access variables and methods that we created with in the class
class institute:
    #class variable
    name="bring back"
    def demo(self):
        print("today have datascience demo")
    def teaching(self):
        print("class teaching by dinesh sir")
obj=institute()
obj.demo()
obj.teaching()
obj.name
```

➞ today have datascience demo
class teaching by dinesh sir
'bring back'

```
class student:
    print("good morning")
    def __init__(self):
        print("good evening")
    def wish(self):
        print("hello..!")
obj=student()
```

➞ good morning
good evening

```
class intelligence:
    name="artificial intelligene"
    def __init__(self,company,location,product):
        #instance variables
        self.Name=company
        self.address=location
        self.software=product
```

```
def display(self):
    print("our company is {} ,and company location is {},and our product is {}".format(self.Name,self.address,self.software))
obj1=intelligence("open AI","U.S.A","chatgpt")
obj1.display()
obj2=intelligence("google","U.S.A","gemini A.I")
obj2.display()
```

our company is open AI ,and company location is U.S.A,,and our product is chatgpt
our company is google ,and company location is U.S.A,,and our product is gemini A.I

```
#local variables
class calculator:
    def add(self,a,b):
        result=a+b
```

None

```
class intelligence:
    name="artificial intelligene"
    def __init__(self,company,location,product):
        self.Name=company
        self.address=location
        self.software=product
    def display(self):
        print("my company name is:",self.Name)
obj1=intelligence("meta","U.K","lama")
obj1.display()
obj1.Name="whatsapp"
obj1.display()
```

my company name is: meta
my company name is: whatsapp

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