

In [25]: 1,2

```

class vehicle:
    def __init__(self,name_of_vehicle,max_speed,average_of_vehicle):
        self.name=name_of_vehicle
        self.max_speed=max_speed
        self.average=average_of_vehicle

class car(vehicle):
    def seating_capacity(self,capacity):
        return self.name,capacity

c=car("BMW",300,20)
print(c.seating_capacity(6))

('BMW', 6)

```

In []: 3.what is multiple inheritance ?write a python code to demonstrate multiple inheritance
 ->in multiple inheritance an object or class can inherit features from more than one

In [38]: *#multiple inheritance*

```

class class1:
    def car(self):
        print("in class1")
class class2(class1):
    def car(self):
        print("in class2")

class class3(class1):
    def car(self):
        print("in class3")
class class4(class2,class3):
    pass

obj=class4()
obj.car()

in class2

```

In []: 4.what are getter and setter in python ?create class and create a getter and setter
 ->getter->these are method used in oops which helps to access the private attribute
 setter->these are method used in oops feature which helps to set the value to private

```
In [43]: class pwskills:
    def __init__(self):
        self._age=0
    @property
    def age(self):                #getter
        return self._age

    @age.setter
    def age(self,value):

        self._age=value

Harry=pwskills()
Harry.age=20 #setter
Harry.age    #getter
```

Out[43]: 20

In []: 5.what is method overriding in python ?write a python code to demonstrate method over-
->method overriding is an ability of any object-oriented programming language that
or child class to provide a specific implementation of a method that is already p
super-classes or parent classes .

```
In [45]: class parent():
    def __init__(self):
        self.value="inside parent"

    def show(self):
        print(self.value)

class child(parent):

    def __init__(self):
        self.value="inside child"

    def show(self):
        print(self.value)

obj1=parent()
obj2=child()

obj1.show()
obj2.show()
```

```
inside parent
inside child
```

In []: