

In [36]: *#Q1, Create a vehicle class with an init method having instance variables as name_of_vehicle and average_of_vehicle.*

```
class vehicle :
    def __init__ (self ,name_of_vehicle, max_speed,average_of_vehicle):

        self.name_of_vehicle = name_of_vehicle
        self.max_speed = max_speed
        self.average_of_vehicle = average_of_vehicle
```

In [32]: `d=vehicle('honda',120,65)`

In [33]: `d.average_of_vehicle`

Out[33]: 65

In [34]: `d.name_of_vehicle`

Out[34]: 'honda'

In [35]: `d.max_speed`

Out[35]: 120

Q3. What is multiple inheritance? Write a python code to demonstrate multiple inheritance.

If a child class inherits from more than one class, i.e. this child class is derived from multiple classes, we call it multiple inheritance in Python.03-Jul-2022

```
In [12]: class class1:

    def test_class1(self):
        return 'this is a class1'
```

```
In [11]: class class2:

    def test_class2(self):
        return 'this is class 2'
```

```
In [15]: class class3 (class1 ,class2 ):
    pass
```

In [16]: `obj_manhali=class3()`

In [17]: `obj_manhali.test_class1()`

Out[17]: 'this is a class1'

In [18]: `obj_manhali.test_class2()`

Out[18]: 'this is class 2'

Q4. What are getter and setter in python? Create a class and create a getter and a setter method in this class.

a getter method returns its value while a setter method sets or updates its value.

```
In [20]: class bank_account :
def __init__(self , balance) :
    self.__balanace = balance

def deposit(self , amount) :
    self.__balanace = self.__balanace + amount

def withdaw(self ,amount) :
    if self.__balanace >= amount :
        self.__balanace = self.__balanace - amount
        return True
    else :
        return False

def get_banalnce(self):
    return self.__balanace
```

```
In [23]: vishal=bank_account(5000)
```

```
In [24]: vishal.get_banalnce()
```

```
Out[24]: 5000
```

```
In [25]: vishal.withdaw(2000)
```

```
Out[25]: True
```

```
In [26]: vishal.deposit(8000)
```

```
In [27]: vishal.get_banalnce()
```

```
Out[27]: 11000
```

Q5.What is method overriding in python? Write a python code to demonstrate method overriding.

when you have two methods with the same name that each perform different tasks.

```
In [30]: class x:
def showdata(self):
    print('hi vishal koni')

class y(x):
def showdata(self):
    print('well come to manhalli vishal koni ')

obj=y()
obj.showdata()
```

```
well come to manhalli vishal koni
```

```
In [37]: qustion no 2 missing
```

```
File "C:\Users\visha\AppData\Local\Temp\ipykernel_13992\1487300754.py", line 1
    qustion no 2 missing
```

```
      ^
```

```
SyntaxError: invalid syntax
```

```
In [ ]:
```