Python_J2_Class_Method_[Day_17](DATA MINDS)

September 15, 2023

CLASS METHOD - : We can use the overload function with the help of class method

NOTE - Without using the " **init** " we can access the elements from the object

NOTE - By default there is no concept of overloading in python but we can achieve this overloading with the help of class method

[1]:
```
class Data_science():
    def __init__(self,skills,profile):
        self.skills=skills
        self.profile=profile
    def student_details(self):
        print(self.skills,self.profile)
```

[6]:
```
Details=Data_science("Machine learning","Data Scientist")
```

[7]:
```
Details.skills
```

[7]:
```
'Machine learning'
```

[8]:
```
Details.profile
```

[8]:
```
'Data Scientist'
```

[9]:
```
Details.student_details()
```

```
Machine learning Data Scientist
```

[22]:
```
class Data_science1():

    def __init__(self,skills,profile):
        self.skills=skills
        self.profile=profile

    @classmethod
    def information(cls,skills,profile):
        return cls(skills,profile)
```

```
    def student_details(self):
        print(self.skills,self.profile)
```

[26]:
```
Information=Data_science1.information("Deep learning","ML Engineer")
```

[27]:
```
Information.skills
```

[27]:
```
'Deep learning'
```

[28]:
```
Information.profile
```

[28]:
```
'ML Engineer'
```

[29]:
```
Information.student_details()
```

```
Deep learning ML Engineer
```

[31]:
```
Information.information
```

[31]:
```
<bound method Data_science1.information of <class '__main__.Data_science1'>>
```

[39]:
```
class Data_science2():

    mob_no=908459713697

    def __init__(self,skills,profile):
        self.skills=skills
        self.profile=profile

#for changing the mobile no
    @classmethod
    def change_mob_no(cls,mobile):
        Data_science2.mob_no=mobile

    @classmethod
    def information(cls,skills,profile):
        return cls(skills,profile)


    def student_details(self):
        print(self.skills,self.profile,mob_no)
```

[52]:
```
Data_obj=Data_science2("Name - Virat :","Tech - NLP")
```

[53]:
```
Data_obj.student_details()
```

```
Name - Virat : Tech - NLP
```

[61]:
```
Data_obj=Data_science2("Name - Virat :","Tech - NLP")
```

[62]:
```
Data_obj.student_details()
```

```
Name - Virat : Tech - NLP
```

[40]:
```
Data_science2.mob_no
```

[40]:
```
908459713697
```

[38]:
```
Data_science2.mob_no
```

[38]:
```
908459713697
```

[41]:
```
#this is how we change or update the mobile no

Data_science2.change_mob_no(88456177964)
```

[42]:
```
Data_science2.mob_no
```

[42]:
```
88456177964
```

[63]:
```
class Data_science3():

    mob_no=908459713697

    def __init__(self,skills,profile):
        self.skills=skills
        self.profile=profile

#for changing the mobile no
    @classmethod
    def change_mob_no(cls,mobile):
        Data_science2.mob_no=mobile

    @classmethod
    def information(cls,skills,profile):
        return cls(skills,profile)


    def student_details(self):
        print(self.skills,self.profile,mob_no)
```

[70]:
```
def course_details(cls,course_name):
    print("Course Name is : ", course_name)
```

[71]:
```
Data_science3.course_details=classmethod(course_details)
```

[73]:
```
Data_science3.course_details(" Data Science")
```

```
Course Name is :   Data Science
```

[74]:
```
def mentor(cls,list_of_mentor):
    print(list_of_mentor)
```

[76]:
```
Data_science3.mentor=classmethod(mentor)
```

[80]:
```
Data_science3.mentor("Python by - Sudanshu sir")
```

```
Python by - Sudanshu sir
```

[81]:
```
class Data_science4():

    mob_no=908459713697

    def __init__(self,skills,profile):
        self.skills=skills
        self.profile=profile

#for changing the mobile no
    @classmethod
    def change_mob_no(cls,mobile):
        Data_science2.mob_no=mobile

    @classmethod
    def information(cls,skills,profile):
        return cls(skills,profile)


    def student_details(self):
        print(self.skills,self.profile,mob_no)
```

[85]:
```
#This is how we delete the fuction from the class with the help of "del" keyword

del Data_science4.student_details
```