Inner Classes or nested Classes

- Process of defining a class or classes inside another class
- Advantages are grouping or sub grouping of data

Syn:

class <className>:

Attributes [Fields | Methods | constructors] class < InnerClass >:

Attributes [Fields | Methods | Constructors]

Example:


```
What are the members of class 
Employee?
```

setEmployee() | getEmployee()
Doj Inner Class

DOJ

setDoj() --> need to set the data for dd|mm|yy
getDoj() --> print Doj: dd-mm-yy.

Employee:

setEmployee() --> need to set the data for eno and ename getEmployee() ---> print eno and ename

What are the members of the class Doj? setDoj() and getDoj()

class Employee:

```
def setEmployee(self):
    self.eno=input("Enter eno : ")
    self.ename=input("Enter ename : ")
```

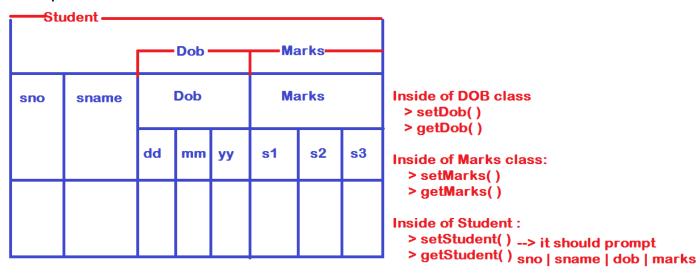
def getEmployee(self):

SSST Computer Education Besides R.S.Brothers Show Room Kphb- Hyderabad - 9866144861

Python

```
print("Eno is : ",self.eno)
    print("Ename is : ",self.ename)
  class Doj:
    def setDoj(self): #instance mtd of class Doj
       print("Enter Doj ")
       self.dd=input("Enter DD : ")
       self.mm=input("Enter MM : ")
       self.yy=input("Enter YY :")
    def getDoj(self):
       print("Doj is : {}-{}-{}".format(self.dd,self.mm,self.yy))
#CallingThem
e=Employee()
e.setEmployee()
d=e.Doj()
d.setDoj()
print("- "*30)
e.getEmployee()
d.getDoj()
```

Example 2:



class Student:

```
def setStudent(self):
    self.sno=input("Enter sno : ")
    self.sname=input("Enter sname : ")

    self.d=self.Dob()
    self.d.setDob()

    self.m=self.Marks()
    self.m.setMarks()

def getStudent(self):
    print("- "*30)
    print("Sno is : ",self.sno)
    print("Sname is : ",self.sname)
```

SSST Computer Education Besides R.S.Brothers Show Room Kphb- Hyderabad - 9866144861

Python

```
self.d.getDob( )
  self.m.getMarks()
class Dob:
  def setDob(self): #instance mtd
    print("Enter DOB:")
    self.dd=input("Enter DD : ")
    self.mm=input("Enter MM:")
    self.yy=input("Enter YY:")
  def getDob(self):
    print("Dob of Student : {}-{}-{}".format(self.dd,self.mm,self.yy))
class Marks:
  def setMarks(self):
    self.s1=input("Enter Sub1 Marks:
    self.s2=input("Enter Sub2 Marks:")
    self.s3=input("Enter Sub3 Marks:")
  def getMarks(self):
    print("- "*20)
    print("Marks are
    print("Sub1 Marks : ",self.s1)
    print("Sub2 Marks : ",self.s2)
   print("Sub3 Marks : ",self.s3)
```

SSST Computer Education Besides R.S.Brothers Show Room Kphb- Hyderabad - 9866144861

Python

#Calling

s=Student()

s.setStudent()

s.getStudent()