## Training Day – 18

**Create A Generalized Function** which takes any no of arguments and return the multiplication of all arguments using variable length keyword argument function.

```
##BLL
# def mul(*args):
                   \#args=(2, 3, 4, 5, 6)
    r=1
    for i in range(len(args)):
#
#
      r=r*args[i]
#
    return r
# #PL
\# r1=mul(2,3,4,5,6)
# r2=mul(1,2)
# print(r1,r2)
Create your own generalized index function. Print all the matching index
positions of an element present in a list [2,3,4,5,6,2,3,4,2,3,4,2]. Take the
element as input from the user.
##New Program
# L=[2,3,4,5,6,2,3,4,2,3,4,2]
# ele=2
# for i in range(len(L)): \#i=0,1,2,...n-1
    if(L[i]==ele):
#
      print(i)
Constructor: is a method, which is called automatically everytime
we create an object in python. In Python the name of the constructor
is fixed ie init ()
##New Program
# class C1:
    def init (self):
                         #Constructor
#
#
      print("CETPA")
# ob1=C1()
# ob2=C1()
# ob3=C1()
```

Generally in programming in real world, the variables of all objects of a class are common like all customers will have same variables like id, name, age, mob so we mostly create the variables inside constructor.

## # class Customer:

```
def init (self): #self=1000, self=2000
      self.id=0
                  #1000.id=0, 2000.id=0
#
                   #1000.name=0
#
      self.name=0
#
      self.age=0
                  #1000.age=0
#
      self.mob=0
                   #1000.mob=0
# cus1=Customer()
                   #cus1 1000, self 1000
# print(cus1.id,cus1.name,cus1.age,cus1.mob)
                    #cus2 2000, self 2000
# cus2=Customer()
# print(cus2.id,cus2.name,cus2.age,cus2.mob)
```

Now class or static variables and methods. These variables or method are like normal variables or functions which we have studied outside class.

## **How To Create Static Variables:**

Same syntax like outside class. Directly inside class, assign the value

var name=value

How To Access Static Variables: using class name

class\_name.var\_name

Static variables will be common variables