Short notes

T= Lambda a,x,b: axx+b T (2,4,5) #pnvts 13 dycommon(a,c) return (lambda d', axx ec)
mbr-km (2 conv (0:001,0); mtr-km (2000) Map, Filter & Reduce l = list (map (lambda x: xxx2, l1))

l = list (map (lambda 2: 24, 2=0,1))

l = list (filter (lambda 2: 29, 2=0,1))

from functools import reduce

2 = reduce (lambda 2, y: 2+y, l1)

Filogranci souly

10



Recursive function
Factorial poor govern formy recum fund

```
def rec(x):
    if(x > 1):
        res = x * rec(x - 1)
    else:
        res = 1
    return res

print(rec(5))
```

File Handling

import os
os.getcwd()
os.listdir()
#can specify folder inside
#like r'C:\Users\Desktop'

os.path.isfile("FileName.txt")

filePath = r'C:\Desktop\Fname.txt'

File Creation

If I = open (frame.txt, 'a') Lift. . close () (no modert), no colon Casy way to avoid open clon with method with open (9n'fradd \fram. +xxt', 'w') as f2: f2. write ("ilp test") 2 - mode i/ file exist, emmor beren, coloni try: except:

```
For file name creation for current time
from datetime import datetime
Timefilename= x.strftime('%d-%m-%Y-%H-%M-%S.txt')
with open(Timefilename, 'w') as fp
#observe it's a variable
If in a specific folder
file\_name = r"C:\Users\LENOVO\OneDrive\Desktop\" + x.strftime('%d-%m-%Y-%H-%M-%S.txt')
#observe double \\
For reading
OOPS: Objects and Classes
# note , self. Is needed inside def __init__( self, self.Var)
# in just argument passing methods , , directly use , Var instead of self
class Customer:
      def __init__(self,name,age) :
            self.custname = name
            self.custage = age
            self.custbalance = 0
            #noteNoBalanceArguementPassedasImNotGivingInput
      def display(self):
            print(self.custname)
      def deposit(self,amount):
            self.custbalance = self.custbalance + amount
```

#Private Members Demonstation

class Base:	
	definit(self):
	self.a = 'Prime Intuit'
	selfc =
	'PrimeIntuit_Private'
	def display(self):
	print(self.a)
	print(self. <u></u> c)

class Derived(Base):	
	definit(self):
	Baseinit(self)
	print("Calling private
	member of base class: ")
	print(self.a)
	#print(selfc) #this if not
	commented will throw erroe for

obj2 derived

obj1 = Base()	
obj1.display()	
obj2 = Derived() #in this c throws error , like child accesing parent	
locker	
#AttributeError: 'Derived' object has no attribute '_Derivedc'	
#calling display from base class , this works ,	
obj2.display() #in display can be print	

If don't want to pass input , don't declare

definit(self):	
	self.balance =

#if want to take input , no need to declare inside init

def opening_account(self):	
	name = input("Enter Acoount
	holder name: "

Theory to Focus On

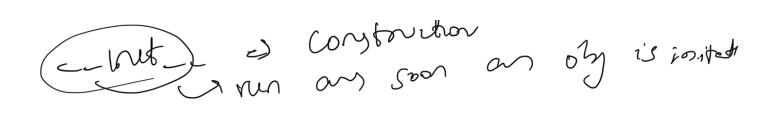
Oops

Polymorphism

Types of inheritance

Oops concepts , objects classes to encapsulation

[DOPS] - programming paredyn that wer object & claves in. programming, - to implement realword entitles Wer inheritances polymorphisms, encapsulation, etc in pr Clary architecture blue print of object - description of attribution & methods of class Object entity that has state & behaviour associated with - fit nay be any real world object like mouse, world object like mouse, keyboard, chairs, table, persete (self) reprients intence of clan



```
class Dog :
   attr1 = "mammal"
   def __init__(self,name) :
        self.name = name
Rodger = Dog("Rodger")
print("Rodger is a {}".format(Rodger.__class__.attr1))
print("My name is {}".format(Rodger.name))
```

O/p Rodger is a mammal My name is Rodger