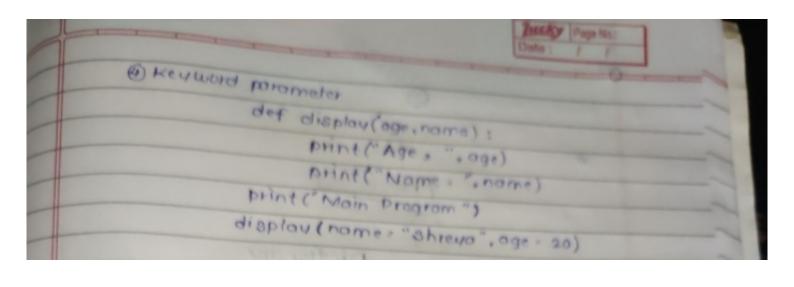
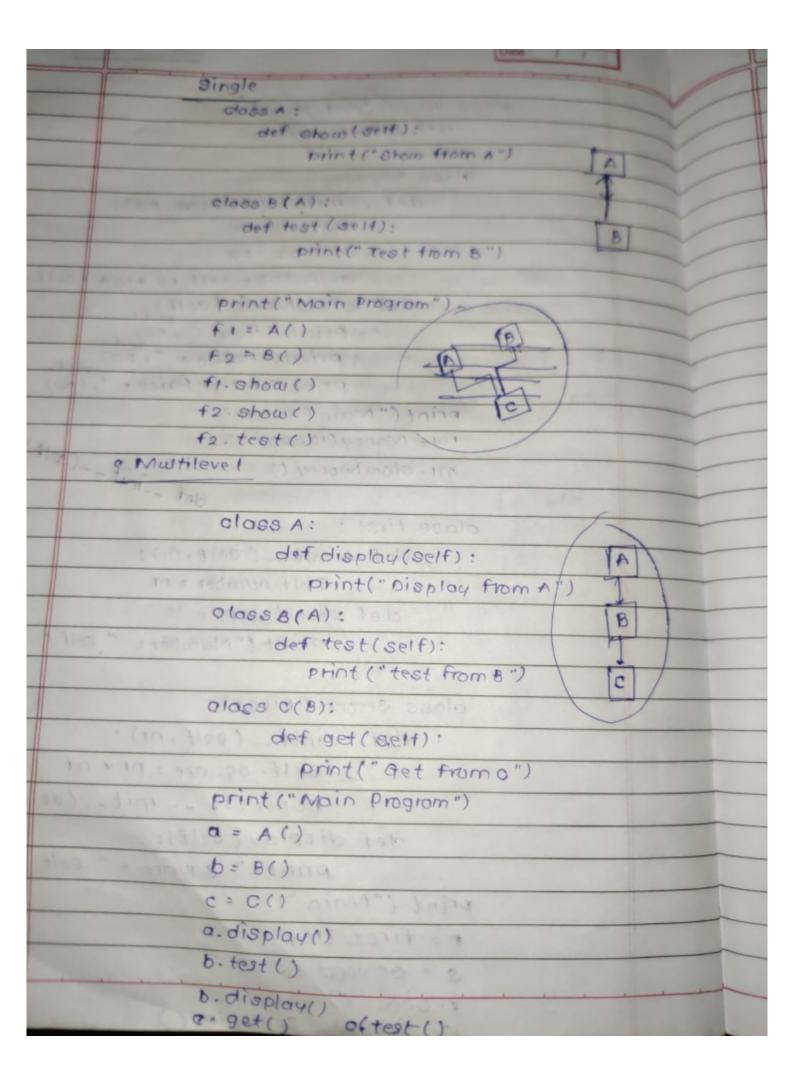
Rist Functions. Li=[10,20,30,70,40] co= len(ei) print (a) mx = max(xi) print (mx) print(" Minimum no: ", min(xis) print(" Addition: ", sum(li)) print("Average: "; avg((i)) Linoppend (24) print (li) () another me can m=[1,2,3,7] 01 00 100 [10,20,30,70,40,24[1,2,3,7]]) 21 append (m) 10 20,30,72,40,24,12,3.7] print (di) a soot samo thing (192019-1119 li-extend (m) ( )9800.00 print (di) li-sort() Print(-(i) Connation English Hang 21. sort (reverse = True) print (41) li. reverse () print (ii) n = lipop() print (n) / print(xi.pop()) cor li. wunt (24) if(001 >0) di-remove(24) Po= Li-index(30) print (po)

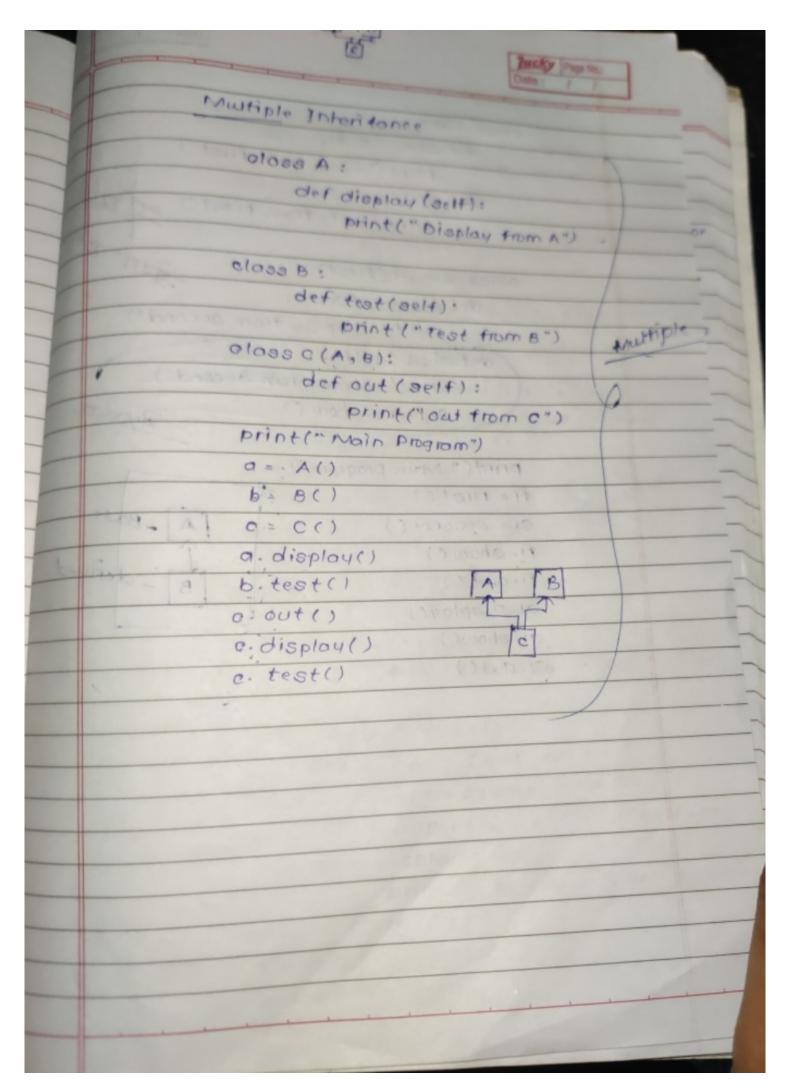
8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
288880	
die	1
<i>a</i>	~
Tkey: value	~
They want to	~
keys() Dictionary	
dig={"FYABCA": 180, "SYBCA": 106,	
"SYBCA":126,	
"TYBCA': 18,	
"FYMA": 120,	
3 "SYMON":180	
g (n) brongo is	
print (die)	
ki = dic.keya()	
print(ki)=(n)+noo(n)+i	
val = dic.values()	
Print (val)	
dio1= { " BCA": 34ears",	
"MCA": 2 years"	
4.	
dici["B.Tech"]="4 years"	
print(dici)	-
v = dicl.get ("MCA")	
print(v) (prest do	
v=dic1.get("MBA")	
print(v)	1
v=dicl.popitem()	
Print(v)	
Y=dicl.pop("BCA")	1
print (v)	3

Print("Enter la dements for the list")  for i in range (lo):  n=int (input())  Ri. append (n)  nl = []  for n in Ri:  if (nl. wunt(n) == 0)  nl. append (n)  Print("Original list: ", Ri)  Ri = nl  print ("After removing duplicate elements: ", Ri)  Ola & S. Test:  print ("Main Program")  obj = Test()  print ("Value is ", obj.x)	1	# Imp Program & 1 = [\$1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =
for i in range (n):  n = int (input())  Ri.append(n)  nl = []  for n in li:  if (nl.wunt(n) == 0)  nl.append (n)  print ("Original list: ", li)  Ai = nl  print ("After removing duplicate elements: ", li)  olass Test:  print ("Main Program")  obj = Test()  print ("Value is: ", obj.x)	7	Ri=[]
n=int(input())  Ri-append(n)  nl=[]  for n in Ii:  if (nl.ownt(n)==0)  nl.append(n)  Print("Original list: ", Li)  Ai=nl  print("After removing duplicate elements: ", Ii)  olass Test:  print ("Main Program")  obj = Test()  print ("Value is ", obj.x)	1	Print ("Enter Molecular C. d. i.i.)
n=int(input())  Ri.append(n)  nl=[]  for n in Xi:  if (nl.owunt(n)==0)  nl.append(n)  Print("Original list: ", Xi)  Xi = nl  print("After removing duplicate elements: ", Xi)  class Test:  x = 10  print ("Main Program")  obj = Test()  print ("Value is ", obj.x)	1	for i in range ( in )
print ("Main Program")  obj = Test()  print ("Value is ", obj.x)	1	n=int(input(1)
for n in i:  if (n1. \omegaunt(n) == 0)  n1. append (n)  Print(" Original list: ", i)  if (n1. \omegaunt(n) == 0)  n1. append (n)  Print(" Original list: ", i)  Ai = n1  print(" After removing duplicate elements: ", ii)  olass lest:  x = 10  print (" Main Program")  obj = Test()  print (" Value is ", obj.x)	1	li.append(n)
for n in li:  if (n!. \times unt(n) == 0)  n! \times append (n)  Print("Original list: ", li)  li = n!  print("After removing duplicate elements: ", li)  olass Test:  print("Main Program")  obj = Test()  print("Value is ", obj.x)	1	n(=[]
if (n1. \omegaunt(n) == 0)  n1. append (n)  Print("Original list: ", &i)  &i = n1  Print("After removing duplicate elements: ", &i)  olass Test:  print("Main Program")  obj = Test()  print("Value is ", obj.x)	-	for n in li:
print ("ariginal list: ", Li)  li = nl  print ("After removing duplicate elements: ", Li)  olass Test:  print ("Main Program")  obj = Test()  print ("Value is ", obj.x)	-	
print ("Original list: ", Li)  Ai = nl  print ("After removing duplicate elements: ", Ii)  Olass Test:  X = 10  print ("Main Program")  Obj = Test()  print ("Value is ", obj.x)		
Print ("After removing duplicate elements: ", "i)  Olass Test:  X = 10  Print ("Main Program")  Obj = Test()  Print ("Value is ", obj.x)		
print ("After removing duplicate elements: ", di)  oloss Test:  x = 10  print ("Main Program")  obj = Test()  print ("Volue is ", obj.x)		
olass Test:  x=10  print ("Main Program")  obj = Test()  print ("Value is ", obj.x)		
print ("Main Program")  obj = Test()  print ("Value is ", obj.x)  print("Value is ", obj.x)		y and advanta.
print ("Main Program")  obj = Test()  print ("Value is ", obj.x)  print("Value is ", obj.x)		class last.
print ("Main Program")  obj = Test()  print ("Value is ", obj.x)  print ("Value is ", obj.x)		
obj = Test()  print ("Volue is ", obj.x)  print("Volue is ", obj.x)		
print ("Value is ", obj.x)  prable		
(marine pinable)		obj = Test()
mable simble		print ("Value is ", obj.x)
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		prable
TV) toits	,	ADS JOSEPH A
		(v) to 12

	a Types of parameters
	e Positional Parameter:
	def colowate(ni.naina):
	gum: ni +na+n3
	avg * sum/g
	print("Average= ", avg)
100	print("Main Program")
	oolewate ( 5, 7, 10 )
	(21-11-31 + 69") + airq
	a variable length parameter key Non key
	Non- key tuple
	def calculate (Garg): 1 0128"
	Sum = Overnille - In
	for i in org:
	sum += i sut
	ovg = sum/count
	print ("Average = ", avg)
	def(display(**args): Dictionary
	for key, value in args:
	print(key, value)
	print ( "Main Program ")
1	calculate (10,22,23, 24,26,29)
1	
	display (city = "Kolhopur", eity : Sangli")





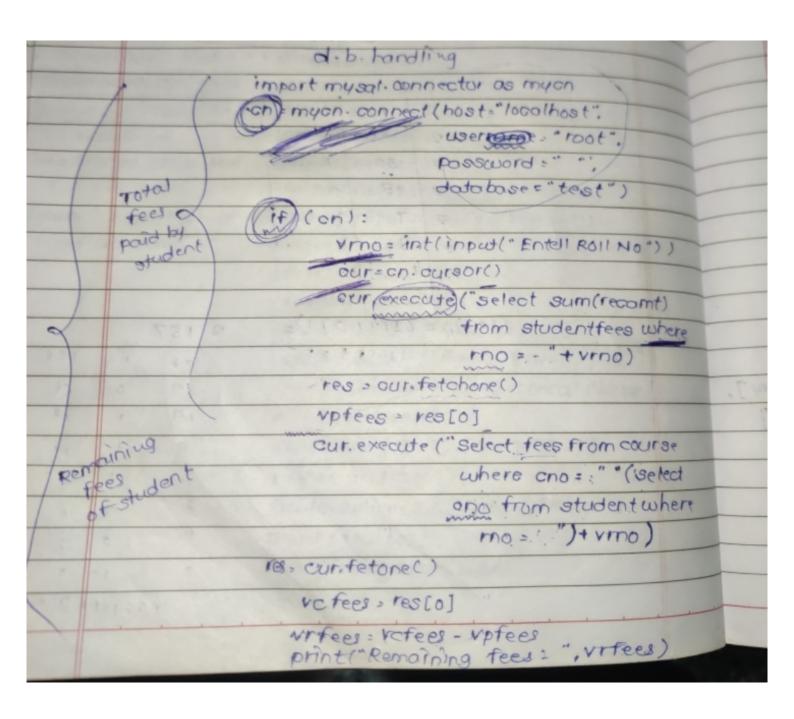


Construc	dor
Olas	se Money:
	def init - 1 (self, rs, ps):
	Self. rs = rs
	Self. ps = ps
	9elf. tps = self. 18 *100 + self. ps
-	def show Money (self).
(0)	print ( Ra = " , ra)
- 5 (3)	print("Paise = " ps)
1-14-	Print (" Total Paise: ", tps)
pri	int ("Main Program")
	= Money (10, 20) 1. Show Money ()

	o function overlanding
7	ologo A
	no work!
1	def assign Values (self, *args)
1	(*en (args) = = 0);
	*Sett. 15 . intlingut l'Enter value for
	Ro"))
	Self-posint (input l'Enter value
	for Poise"))
	elif (lenkargs)==1):
	Self. tpg = orgs[0]
	Self. 15 = Self. tps/100
	else:
	Self. rs = orgs toj
	self.ps=args[i]
	def showMoney (self)
-	
-	Print ( KS = , Self-1S)
-	Final raise: * 881+.ps)
4	print(" Total Paise = ", self.tps)
	· Print ("Main")
	ml= Money()
	m2= Money()
	m3 = Money()
	mi. assignValues (1630)
	mi. showMoney()
	m2. 088ign Volues (10,20)
	m2-showMoney()
	ma. assignValues()
	m3. showMoney()
	(HEDE OLELIAN) MOUNTON
	Tilonos bitio ; uncitar insolve para

	Date:
	Default Argument
	def 'Calculate (ni, no 10, na 10) :
	sum : ni +no+no
	ava sum/s
	print(f"sum = { sum }")
	Print(f" Average : {ovg }")
	print("Main Program")
	00/00/01/8, 21)
	00/avate(18,21)
	calculate(21)
	Types of parameters
	a Positional Parameter:
	def calculate(nin2in3):
	gum: n1 +n2+n3
	avg sum/s
	print("Average= ", avg)
09.1190	print("Main Program")
	001culate (5, 7,10)
	(21. Hes 69") Fried
100	a variable length parameter key Non
(CA)-110	Non- key tuple
	def calculate ( @arg):1 0.
	Sum = Overalla 1 a
	for i in org:
	sum t=i
	avg = sum/count
	print ("Average= ", aug)
*.	def(display(**args): _ biotiono
	for key, volue in orgs:
	print(key, value)
	print ( "Main Program")
	calculate (10,22,23, 24,26,29)
4	display ( city = "Kolhopur", eity : Sangl

	Insert date into toble by keyboard (d.b. hardling)
	import musql connector as much
	on a much connect (host a "tocalhast")
	and and a super stroot ,
	DESERVORD AT THE
	if (cn): ( dutabase "tot")
	vono = input ("Enter course number")
	voname inputt" Enter course name ")
	reduration input ("Enter course duration")
a	vfees = input("Enter dourse fees")
	ourson cursor ( ) to der in
	st = f" insert into course values
	({vono}) if vorame; fuduration .
	{vfees}).".
	our execute (st) in ) hard
	1 2 8 % 3 an-commit() and problems
	TERRITOUR. close()
	e chiclose()
	(elagi: 19phs
	e print("Emor") [ 11.2:0]
	DE TRI COLUMNIA DE POLICE



1	Mumpy Array Attributes
1	are numpy to ap
-	ary mp. Ourse do
-	print (ar)
-	di = mp. ar. ndim
	Priot (di)
	Print (afishape)
-	print (ar. size).
	Dried (a. Size), 1
	print (ar. dtype) waxa wall, 23]
-	print (ar. itemsize) 100 10 [456]
	000000000000000000000000000000000000000
	[1 2] ndim: 2
	Shape: (3,3)
	[0:2, 1:3] (3) ze 37 9
-	int32
1700	4 288888
	discontante de la descritoriones
	A 12 import numpy os np and 10 8
	1 10
0	[123] or= np.arroy([1,2,3,4,9])+1111 [456] print (at(0))
	FUSE Print (attos)
1	[456] print (ar[0])  [456] print (ar[3])  print (ar[-5])
	7789) print (art-5])
2	ori=np.omay([[1,2,3],[4,5,6],[7,8,9]])
	ori = np.array([[112]])
	print(ar [1:3])  row column  o [1:23]
	now column of
	1 Tuest
	778933
	print(ar [113])  row column  1 [123]  2 [7.89]