

Topics Covered:-

Difference Between is Vs ==

Difference between Shallow Copy Vs Deep Copy

Class Methods And variables

Static Method

OOPs- Multiple Inheritance

Python Eval Function

Concurrent Futures - Launching Parallel tasks

Vulture Library

Python Zip function

Secure hash Algorithm

Python OOPs- Public, Protected and Private

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	main_welconce (channel_name)
uput	welconge
	White
	Please Juliante
	Fautar wasters of the state of
n	-Ofference between is Vs ==
	== is used to compare for ex
	14+1= 4+2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	True or false.
	If we use
	list i is list 2 * if all elements are some is both
	False January Company of the Company
	Here one ranchle is created and by using is that is
	supposed from that memory lawbay
73	Opposence Interes Shattown Copy Vs Deep Copy
	15+1=11,2,3.4]
	75+2= 75+1
	14721] = 1000
	1472[1] = 1000 11,1000,3,4] * 97 will also change 1st 1
	11, 1000, 3, 4) * It will also change lit 1 If we use copy of shorrow copy } 1sta = 1st 1 copy
	11, 1000, 3, 4) * It will also change let 1 If we use copy of shollow copy } 1st 2 = 1st 1 copy If we change in let 2 it will not effect let 1
	11, 1000, 3, 4) * It will also change lit 1 If we use copy of shorrow copy } 1sta = 1st 1 copy
	11, 1000, 3, 4] # It will also change list 1 If we use copy of shallow copy } 1st 2 = 1st 1 · copy If we change in lists it will not effect lists 13 man the is making different memory location If we use need list
*	11, 1000, 3, 4] # It will also change lit 1 If we use copy of shallow copy } 1st 2 = 1st 1 copy If we change in lite it will not effect lit! 13 course the is making different memory location
	11, 1000, 3, 4] # It will also change list 1 If we use copy of shallow copy } 1st 2 = 1st 1 · copy If we change in lists it will not effect lists 13 man the is making different memory location If we use need list

	Class Merends And class variables
la .	Class Car:
	base puice = 10000 # class variable
	def_inst_ (seef, windows, doors, power):
	self windows = windows
	self doors = doors instance ravables
	set power a power
2	des what have purce (seef):
	punt (" The base pure is of founct (set base)
	cor. have pure
- output	1 Suppose we need to add amount offer 1 year or we went to add influency
	@ class method , wit class
	det revise base purce (cis) inflation
	cls. base purce = cls. base purce + cls. base purce
	Cor revise base puice (0.10)
	11000 foxez.
	Felal Control
	State Methods. @ Statemethod
	the connot excell multiple copy of static method.
	@ static method
	def check year ():
~	if now, year==2024:
	Hehring True
	else
	sychury False
	This sun faster.

	Dots Dogo
	oops- Multiple travilance
	Closs A:
	def method 1 (seef):
	prunt ("A class mereod is colled")
	class B(A):
	def mettrod 1 (self):
	punt ("B closs method is called")
4,1	close c(A)
	def method 1 (seef):
	prunt ("c close method is collect")
2/429	class D(B,C)
	def method 1 (self):
	puint ("A cless method is colled")
	d=DC)
	d. meterod 1()
output	D closs method is called
	B. method 1 (d)
out-	B class method is colled
	Rython Eval function - Evalueting Expuessions Synanically eval() { source, globals = None, locals = None}
#1	Evaluates expuessions which are written as strungs.
	for ex: eval (5*5)

#1	How does Eval work. Parse python Expuession Ve up to a byte code
	· Parse python Expuestion · Compile into a byte code · Compile into a byte code · Evaluate the python apression · It will neturn the result
#	Concurrent futures - haunching parallel tasks
	asynchronously executing cartes
	The asynchronous execution can be performed with the asynchronous execution can be performed with thread asing Thread Pool Executor or seperate process using Process Pool Executor
<u>e.g</u>	impout time. From consurrent, futures imposit ThursdPoolExecutor der recurrynumber (a):
	Herring a Herring a Herring a
out;-	Short = time time() with Thursd Pool Executor (max workers = None) as executor: for excutor in executor map (returnament, range (tw)) punt ("(ount : { o } ". foundt (result))
	pount (" total time is : {0}", fournat (time · time · time) - stout))
#	Vulnure bibushy: - used to find dead code. It will helps us to find unused code in our project

```
Page
     Python Tip Junction - Parallel Heranon
   a. lett = ["Knush", "Som", "John"]
     1sta= 1 "a" , 'b', 'c']
     Tip output = xip (1st 1, 2st2)
     1st/outjout)
owput [ ("keush", "a"), ("sem", 'b'), (" John", 'c')]
     Chang a hiple with some index
    · You can iterate through multiple iterator
    SHA, ( Sewe Hack Algorithms ) - Base of Brocketoin
    · SHA 256 )
    · SHA384 | many move one a.
    * SHA 224
     impout haslib
 SHA 256 -> 64 characters
     SHIL = "Knish Naik"
     I Pewers of Hashing,
     # fourt step is to encode
     to Thin apply thashing Algorithms
     trashedral = hasub sha 256 (stys. encode(s)
     prent (hashedral)
 owpor Laka 24 Hosh object @ 0x00025f ...
    It convirt the value to hexadelinal
     traspedual thext igest ()
```

	Python oops - Public , Publicled And Peuvale
	Python Ops - Public, Publiced And Peuvale
PW.	
o <u>T</u>	def init (self, windows, doors, enginetype);
	selficindows = windows
	septidone = dones
	self. enginetype : enginetype
F.F.	quidi-cor (4,5, "Diesel")
	audi
output	<- main car at 0x 1+a 423c {memory }
	surfacel expenses promise Trues
#	The Home all class variables are Public { They can be
	occussed from chywhere }
4	hers suppose we are erecting close variables purpoted
	O The state of the
*	we will add underscore before
	11 Setf. wor_windows = windows
	we can overwrite the public close variables but
	in perotected 1th only ovailable in sub class.
15	Lower species and the good long, the
-11	Punati:
	self windows windows of these are puralt
	and connot be accused a from outrou the class.
	or modified.
	The state of the s
-	(Carried State of the party of the property of the party
	(Disks chill + 9 may 1 mg 1