Msys:

1. What is the output when following code is executed ?

>>>names = ['Amir', 'Bear', 'Charlton', 'Daman']

>>>print names[-1][-2]

2. list1 = ['A','B','C'] and list2 = [10,20,30].

results should be [('A',10),('B',20),('C',30)] without using  any of inbuild function

 3. How are the functions help() and dir() different?

4. Iterate over a list of words and use a dictionary to keep track of the frequency(count) of each word. for example

'1,3,2,4,5,3,2,1,4,3,2'

output should {'1': 2, '3': 3, '2': 3, '5': 1, '4': 2}

5. {

PKey1 => {

Vkey1 => { Value1, Value2, Value3},

Vkey2 => {Value1, Value4, Value6}

},

PKey2 => {

Vkey3 => {Value1, Value6, Value4, Value3}.

Vkey4 => {Value2, Value3}

},

}

Write an algorithm & Python program to create all the permutations & combinations possible. For example, the permutations are a combination of Pkey’s, VKeys’s and Values.

6. How is Inheritance and Overriding methods are related?

Intel:

=====

1. Lambda

2. Diff b/w argparse, sys.argv

3. List methods

4. Exception handling

5. search ip addresses in file

6. Create a cli command add.py which will add multiple arguments?

python add.py 12 23 21 34 12 5 ..

7. diff b/w open and with open?

8. how to execute a.exe file with python?

9. diff b/w range and xrange?

Lists:  
1. reverse a list without using builtin functions  
2. given a list [1,2,3,...100], get the alternate 5th element  
3. given with 2 lists, write a code to check if both lists are equal.  
    ex: [1,2,3,2,1] and [1,3,2,2,1] are equal  
4. what are the different ways to update the list  
5. is it possible to convert list to tuple and vice-versa  
6. difference between append and extend in list with examples, and where to apply  
    these two in real time scenario?  
7. what is the best way to read a list of 1-billion elements?  
8. use if push, pop and insert and their real time application  
9. can list be used as key in dictionary? if yes then how? if not then why? with example  
10. can list be used inside the tuple? if yes then how? if not then why? with example  
11. difference between range and xrange  
12. where can we use xrange? with example  
13. different ways to copy list? with example  
14. which is faster range or xrange? and why? with example  
  
Tuple:  
1. is it possible to update tuple? if yes then how? if not then why?  
2. how to create tuple with single element?  
3. is it possible to delete element from tuple?  
4. can tuple be used as key in dictionary? if yes then how? if not then why? with example  
5. can tuple be used inside the list? if yes then how? if not then why? with example  
6. difference between tuple and list  
  
Dictionary:  
1. what are the different ways to update dictionary? with example  
2. different ways to copy dictionary? with example  
3. where can we use dictionary? with example  
4. delete element from dictionary, with example  
5. iterating through the dictionary with dict.items() and dict.iteritems(), with example  
6. whether dictionary is mutable or immutable?  
  
Extra:  
1. program to read a large file (say 1GB)  
2. program to find a substring in a string without RE  
3. program to find a substring in a string with RE  
4. program to check if given string is Palindrome  or not  
5. program to check if given number is Palindrome  or not  
6. program to check if the substring in a string is palindrome or not  
7. program to remove double occurance of characters in a string   
    (ex: villa -> vila, I am in google -> I am in gogle)  
8. program to remove characters with double occurance in a string   
    (ex: villa -> via, I am in google -> I am in ggle -> (which in turn will be) I am in le)

VMware Interview Question:  
Merge two sorted lists A and B. Make sure there are no duplicates.  
A= [1,1,4,7,9,10]  
B= [0,0,1,1,3,6,9,9,12]C  
---------------------  
C= [0,1,3,4,6,7,9,10,12]

numpy, pandas, purge,

Access privileges in python

Diff b/w exit and sys.exit?

Os module functions and sys functions

Multiprocessing and multi threading

Pyvmomi

Get list of virtual machines using python?

How to check whether that file is locked?

how do you optimise the function?

built in modules in python

exception handling in python

decorator in python

Iterator in python

polymorphism in python

python multiple inheritance example

inheritance python

how to reverse a string in python using for loop

count number of occurrences in list python

What is a dictionary, lambda funciton ?

1) what are list comprehensions

2) what does map and filter functions do

3) what is lambda function

4) What does pre fetch and selected related

5) how do you optimise the following function

Write the script linux server and write io on server A,

Paramiko

L = [1, 2 , 3, 4, 4, 5, 5, 6]

Remove duplicates without any built in

How you will access nfs share and smb share?

How you will troubleshoot SMB and NFS shares?

isinstance

Immutable memory  and mutable memory

A = 5

B = 5

C = 5

How Immutable memory  and mutable memory will work for above 3 variables?

Identifiers

Advantages of dictionary?

Diff b/w \_\_getattr\_\_ and \_\_get\_attribute\_\_?

l = [1, 4, 2, 3, -4, -5]

l[I] + l[j] = 0 and I != j

Q: Generate N random numbers in the range of 1 to N such that each number appear exactly once.

 len(range(x)) == x??

Iterator and generator in python

Multiple inheritance in python

Diff b/w class method and static method?

decorators

Private variable

Fibnocci

Memory proc

Design patterns

Os questions

Data structures

Technical things in python language

Output of the code:

def extendList(val, list=[]):

    list.append(val)

    return list

list1 = extendList(10)

list2 = extendList(123,[])

list3 = extendList('a')

print "list1 = %s" % list1   = [10]

print "list2 = %s" % list2   >> Exception

print "list3 = %s" % list3  = [‘a’]

query to list all the equilateral triangle?

List all the txt files in the current directory?

List all the files owned by you in the current directory?

bpython -

Oops

Project specific modules.

Merge two sorted lists A and B. Make sure there are no duplicates.

A= [1,1,4,7,9,10]

B= [0,0,1,1,3,6,9,9,12]C

---------------------

C= [0,1,3,4,6,7,9,10,12]

Conditions:

No using built in functions like sort, merge (+) etc

No using using dictionary.

---------------------------------------------------------

C= []

for i in A:

    if i in B:

        C.append(i)

    if i not in B:

        C.append(i)

#

C=[0,1,3,4,6,7,9,10,12]

for j in B:

    if j not in A:

        C.append(j)

C = [1, 0, 9, 4, 7, 10, 3, 6, 12]

D= sort(C)

Diff b/w class method and static method?

\_\_all\_\_ what is the purpose?

How is Inheritance and Overriding methods are related?

{

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Vkey2 => {Value1, Value4, Value6}

},

PKey2 => {

Vkey3 => {Value1, Value6, Value4, Value3}.

Vkey4 => {Value2, Value3}

},

}

Write an algorithm & Python program to create all the permutations & combinations possible. For example, the permutations are a combination of Pkey’s, VKeys’s and Values.

Shallow copy, deep copy, inheritance, list, dictionaries

Yield keyword

Generators

lambda

How are the functions help() and dir() different?

Q:  def f():

For i in range(10):

Yield i

abc = f()

abc.next() // 1

How memory is managed in above f function?

Iterate over a list of words and use a dictionary to keep track of the frequency(count) of each word. for example

'1,3,2,4,5,3,2,1,4,3,2'

output should {'1': 2, '3': 3, '2': 3, '5': 1, '4': 2}

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