Python L1 Assignments Solutions:-

1. What will be the output of 'seclist' in print commands of below code?

mylist = range(4)

seclist = mylist

print seclist

mylist.append(4)

print seclist

seclist = mylist[:]

print seclist

mylist.append(5)

print seclist

**[0,1,2,3]**

**[0,1,2,3,4]**

**[0,1,2,3,4]**

**[0,1,2,3,4,5]**

2. What is the output of following code:

def f(n):

for x in range(n):

yield x\*\*3

for x in f(6):

print x

**0**

**1**

**8**

**27**

**64**

**125**

3. Write a program to receive a string from keybord and check if the string has two 'e' in the characters.

If yes return True else False.

stringout=input()

count =0

for c in stringout:

if ‘e’ in stringout:

count+=1

if count == 2:

return True

else:

return False

4. What is the output of following code:

counter = 1

def dolots(count):

global counter

for i in (1, 2, 3):

counter = count + i

print dolots(4)

print counter

**10**

1. Write a code to read the data from input file called input.txt and count the number of characters per line, number of words per line and write these into output file called as output.txt

**fh=open(input.txt,r)**

**for line in fh:**

**wordslist = line.split()**

**words = words + len(wordslist)**

**characters = characters + len(line)**

**fh1=open(output.txt,w)**

**fh1.write(“words and character counts:”,(words,characters))**

6.Create 3 Lists ( list1,list2,list3) with numbers and perform following operations

a) Create Maxlist by taking 2 maximum elements from each list.

b) Find average value from all the elements of Maxlist.

c) Create a MinlIst by taking 2 minimum elements from each list

d) Find the average value from all the elements of Minlist

**list1=[1,2,3]**

**list2=[2,3,4]**

**list3=[2,3,4,5,6]**

**a)maxlist1=list1.sort[-2,-1]**

**maxlist2=list2.sort[-2,-1]**

**maxlist3=list3.sort[-2,-1]**

**maxlist4=list4.sort[-2,-1]**

**b) avg1= (sum(maxlist1)/len(maxlist1))**

**avg2= (sum(maxlist2)/len(maxlist2))**

**avg3= (sum(maxlist3)/len(maxlist3))**

**avg4= (sum(maxlist4)/len(maxlist4))**

**c) minlist1=list1.sort[0,1]**

**minlist2=list2.sort[0,1]**

**minlist3=list3.sort[0,1]**

**minlist4=list4.sort[0,1]**

**d)**

**avg=(sum(minlist1)/len(minlist1))**

7.Write program to convert prefix/net mask to IP

eg: input:16 output: 255.255.0.0

**netmask = '.'.join([str((0xffffffff << (32 - len) >> i) & 0xff)**

**for i in [24, 16, 8, 0]])**

1. **8.** Create a suitable data construct to read the data from an xml document as shown below:

<bookstore shelf="New Arrivals">

<book category="COOKING">

<title lang="en">Everyday Italian</title>

<author>Giada De Laurentiis</author>

<year>2005</year>

<price>30.00</price>

</book>

<book category="CHILDREN">

<title lang="en">Harry Potter</title>

<author>J K. Rowling</author>

<year>2005</year>

<price>29.99</price>

</book>

<book category="WEB">

<title lang="en">Learning XML</title>

<author>Erik T. Ray</author>

<year>2003</year>

<price>39.95</price>

</book>

</bookstore>

**from xml.etree import ElementTree**

**with open('data.xml', 'rt') as f:**

**tree = ElementTree.parse(f)**

**node = tree.find('entity\_expansion')**

**print node.tag**

**print ' in attribute:', node.attrib['attribute']**

**print ' in text :', node.text**

9.import os

**for line in (os.sys.(dir)):**

**wordslist = line.split()**

**for i in wordlist:**

**if wordlist[2]==0:**

**print (“ size is zero”)**

**else:**

**print (“size is not zero “**

**10.import os**

**for line in (os.sys.(dir)):**

**set(wordslist) = line.split()**

**for i in wordlist:**

**if wordlist[2]==0:**

**print (“ size is zero”)**

**else:**

**print (“size is not zero “**