Python Activity 2

1. Write a python program:

Using range () display CPU load balance 5 times for every 2 seconds delay.

2. Write a python program to find the sum of all numbers stored in a list

 # List of numbers

numbers = [16, 50, 300,5, 40, 110]

3. Write a python program to iterate through the given list.

Given list --> hosts=['host01','host02','host03','host04','host05']

Using membership operator test host03 exists or not

if **'host03'** does not exists display suitable message to screen

4. Write a python program

a. Create one empty list

b. Read any 5 file names from keyboard and insert them into the list.

c. Display list of files

d. Display each input file details.(use ls -l command)

5. Write a python program

Using List

a. Create 5 different os names.

b. Pint 0th index and 1st index value from list

c. Modify 1st index value

d. Display 1st index value (Compare b statement)

e. Display all the list details.

6. Write a python program

Using tuple :

a. Using tuple create 5 different servernames.

b. print 0th index and 1st index value from tuple

c. modify 1st index value # Read the error message.

d. display all the tuple details.

7. Write a python program

Given List

emp=["ram,sales,pune,1000","kumar,prod,chennai,2000","arun,sales,pune,3000","xerox, HR,mumbai,4500"]

Display employee name, working place and sum of emp's salary

9. Write a python program

Given Tuple :

Conf_files=(“/etc/passwd”,”/etc/pam.d”,”/etc/hosts”)

a. Display total no.of conf files
b. Display 1st and last value
c. Add following files into existing tuple (“/etc/sysconfig” , “/etc/hostname”)
d. Using for loop display Conf_files one by one

10. Write a python program

From the given string display **“root:bin:x:bash”** , **“userA:usr:bin:ksh” , “userB:usr:bin:sh”**

use split() function

11. L1=[“Line1\n”,”Line2\n”,”Line3\n”,”Line4\n”,”Line5\n”,”Line6\n”,”Line7\n”,”Line\8”]

a. How to display 1st 5line data from given list
b. Insert **“LineXYZ\n”** into 2nd index
c. Display Last 5 line elements from given list
d. Convert to tuple and using type() display type

12. Write a python script:

Create an empty list named as **“users”**

Read 5 emp name from **STDIN** , insert each name into existing **users** list

Display all the emp names in sorted order (use : sort function)

13. Write a python script:

Files=(“p1.log”,”p2.log”,”p3.log”,”p4.log”,”p5.log”)

Display all the files following format

Output:-

1. **p1.log**
2. **p2.log**
3. **p3.log**
4. **p4.log**
5. **p5.log**

Total No.of log files are: 5

14. What Is The Output Of The Following Python Code Fragment? Justify Your Answer.

A. list = ['a', 'b', 'c', 'd', 'e']

```
print (list[10:])
```

B. for var in [“mon”,”tue”,”wed”,”Thu”,”Fri”]:

```
if(var == “wed”):
        continue
else:
        print(var)
```

C. Logfiles=(“Test1.log”,”Test2.log”,”Test3.log”,”Test4.log”)

```
if(“Test2.log” not in Logfiles):
        print(“Found”)
else:
        print(“NOT-FOUND”)
```

D. v="root:x:/bin/bash-123:text:bin:text"

```
v.split("/")[-1]
```

E. weekdays = ['sun','mon','tue','wed','thu','fri','sun','mon','mon']

```
print(weekdays.count('mon'))
```

F. testList = [1, 3, 5]

```
testList.sort(reverse=True)
print(testList)
```

15. Identify the errors in the below codes

a. var=(“/etc/passwd”,”/etc/pam.d”,”/var/log/”)

var.append(“/etc/groups)

b. cmd=[“git”,”-a”,”branch”,”-C”]

cmd[5]

c. emptylist=[]

emptylist.append(“Data1”,”Data2”)

d. S1=”testing data”

del(S1[2])

e. “ab” notin “abcd”

f. v1=120

v2=**raw_input**(“Enter v2 value:”) # python 2.x

v2=**input**(“Enter v2 value:”) # python 3.x

>>> v1 + v2

File Handling

Q1. Write a Python Program read following emp.csv file, display each employee name,salary,calculate sum of emp's salary amount.

emp.csv
---
arun,sales,1000
vijay,prod,2000
anu,sales,3000
xerox,prod,4000
karthik,HR,5000

Q2. Write a Python program to count the number of lines in a text file under current directory.
 # use directory handling (import os)

Q3. Write a Python program demonstrate file copy command (cp old new). read a data from one file, write a data to another file.

 # read input file and result file from STDIN

Q4. Write a python program read below process.log file, ignore following shell names such as **" tcsh","p1sh" , "csh"** except that the above shells remaining shell display to screen.

File: Process.log
sh
bash
tcsh
expect
p1sh
csh
ksh