

Assignment : Python

1: Write a Python program to read a file line by line and store it into a list.

2: Write a Python program to calculate the number of days between two dates.

Sample dates : (20200702), (20200711)

3: Write a Python program to convert the Python dictionary object (sort by key) to JSON data. Print the object members with indent level 4.

4: Write a Python program to sort a list of dictionaries using Lambda.

Original list of dictionaries :

[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}]

Sorting the List of dictionaries :

[{'make': 'Nokia', 'model': 216, 'color': 'Black'}, {'make': 'Samsung', 'model': 7, 'color': 'Blue'}, {'make': 'Mi Max', 'model': '2', 'color': 'Gold'}]

5: Write a Python program that takes a text file as input and returns the number of words of a given text file.

Note: Some words can be separated by a comma with no space.

6: Write a Python program to convert an array to an array of machine values and return the bytes representation.

Expected Output:

Original array:

A1: array('i', [1, 2, 3, 4, 5, 6])

Array of bytes: b'010000000200000003000000040000000500000006000000'

7: Write a script which can read the files line by line with .log ext and print it into a file , while printing the data from the suffix with present date and time of the system.

(example of file path are /home/Desktop/demo/test.log,

/home/Desktop/demo/test-1.log, /home/Desktop/demo/test2.log,)

(sample data inside the .log files

03-17 16:13:38.811 1702 2395 D WindowManager:

printFreezingDisplayLogsopening app wtoken = AppWindowToken{9f4ef63

token=Token{a64f992 ActivityRecord{de9231d u0

com.tencent.qt.qml/.activity.info.NewsDetailXmlActivity t761}}}, allDrawn= false,

startingDisplayed = false, startingMoved = false, isRelaunching = false

**03-17 16:13:38.819 1702 8671 D PowerManagerService: acquire lock=233570404,
flags=0x1, tag="View Lock", name=com.android.systemui, ws=null, uid=10037,
pid=2227**

03-17 16:13:38.820 1702 8671 D PowerManagerService:

**ready=true,policy=3,wakefulness=1,wksummary=0x23,uasummary=0x1,bootcomplete
d=true,boostinprogress=false,waitmodeenable=false,mode=false>manual=38,auto=-1,a
dj=0.0userId=0**

03-17 16:13:38.839 1702 2113 V WindowManager: Skipping

AppWindowToken{df0798e token=Token{78af589 ActivityRecord{3b04890 u0

**com.tencent.qt.qml/com.tencent.video.player.activity.PlayerActivity t761}}} -- going to
hide**

03-17 16:13:38.859 2227 2227 D TextView: visible is system.time.showampm

03-17 16:13:38.861 2227 2227 D TextView: mVisiblity.getValue is false

03-17 16:13:38.869 2227 2227 D TextView: visible is system.charge.show

03-17 16:13:38.887 2227 2227 D TextView: visible is system.ownerinfo.show

)

8: Program to Generate random logs and write in a file , once the file size reaches 2Mb open new file and continue writing

9: Script to ping and check whether any given IPs are active, also whether given set of software are installed in the existing system (like java, kubectrl, aws etc)