Python assignments

String :

1.display characters from even position

2. display characters from odd position

3. display length of a string

4. add a at the end of string length times

2. Write a program to accept a string from user

accept another string and store it in variable check

and find all occurances of string stored in check variable.

List

3. Display following menu:

1. Accept Data
    a. add at last position
    b. add at given position
2. Delete data by value
   display message deleted successfully
    or not found
3. delete data by position
   a. delete last element
    b. delete from particular position
4. sort
   a. ascending
    b. descending
5. reverse
6. Print in sorted order
7. print in reverse order

8. display data

a. normal

b. numbered

4. create a list of city by accepting values from user

accept locations and store it in location array

and display 1st city and 1st location

then 2 nd city and 2nd location .....

5. create a list and exchange the values as index and index as values.

lst=[12,1,3,7,8,5,8]

lst1=[-1 1 -1 2 -1 5 -1 3 6 -1 -1 -1 0]

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set Assignment

#Write a program to accept names

from users and store it in sets

#display following menu

```
print("""1. delete element if exists otherwise
     do not show any errr""")
print("2. add a elemet")
print("3. create one more set")
print("4. union of 2 sets")
print("4. intersection of 2 sets")
print("5. difference of 2 sets")
print("6. convert set into frozenset")
print("6. exit")
```

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4. perform all 9 operations on the given list

Generate a list of lists

accept a number from user and check last digit of the number

if it is 1 then add it in the list at 1 st position

if 0 then it should get added at list in 0 th position

e.g list should look as follows

[[10],[51],[52],[],[],[],[],[57]]

[[10,30,20,40],[11,32,41,31],[22,32,42]....]

if user enters 15 then the resultant list should be

[[[10,30,20,40],[11,32,41,31],[22,32,42],[],[],[15]]

5. create a list to store strings in a list in follwing manner list

[dxz,axz,bat,rat,cat,pat,bbc,bbm,cbm,....] pat axz

all list with same character at second position should be consecutive

if user adds sat the the resultant list will be

[bat,rat,cat,sat,bbc,bbm,cbm,....]

if user adds pick

then it should be added at

bat,rat,cat,bbc,bbm,cbm,pick]

Dictionary:

#write a program to accept name of a person

#and vehicle name as value

#ask user do you want to continue

#display following menu

1. Add new person and vehicle

2. delete a key from dictionary

   ----accept key from user

   ----check whther key exists

   ----if exists show key and value to user

   ----confirm for deletion if user enters y

      then delete otherwise no

del(d['a'])

3. modify value of a key

   ----accept key from user

   ----check whther key exists

   ----if exists show key and value to user

   ask for new value

4. search vehicle for the given name

5. search list of people name who has given vehicle

6. display all keys

7. display all values

8 exit

Write a program to display following menu

1. add new city and trees commonly found in city

2. Display all cities and the list of trees for all cities

3. display list of a particular city

Accept a city from user search city and if found display list of trees otherwise

display message not found

4. display cities containing tree

Accept a tree name from user and display all cities in which the tree is there

5. delete city - Accept city from user and delete the city if found

prompt user before deletion

6. modify tree list

accept city and trees to be added in the city. if city exist add trees at the end of the list

Otherwise add city and list

7. exit

Object oriented programming

1. Write a python program for the following

data is in salariedemployee.dat and contractemployee.data

read data from file if exists. in a list

a. Add new Employee

b. Delete employee

c. modify salary of employee

d. search employee

e. Calculate Salary of Employee

f. Display All

e. exit --- write all objects from list into file

3. create a class Dealers

store id,name,modile and full address

create 5 objects

find dealers which matches following condition

1. find dealer who le=ives in pune

2. Find dealer having mobile as palindrom

MongoDb to file conversion

display menu

1. Insert document

accept product id,product name,product price,quantity from user and

insert it into collection product

2. Delete document

accept id from user and delete document

3. Update Document

accept id from user and modify quantity and price of the product

4. read all documents

5. read by id

accept id from user and display the document

if not found then display error message

6 conversion to file

read all documents from collection

convert each document in colon seperated format

and write into file productdata.dat

7. exit

OS package

1. count how many files are there in your cwd

2. count how many files are there in cwd and its subfolder

3. count how many .py files in pythondemos folder

how many filenames are starting with 'a'

how many folders are starting with 'm'

4. accept a string from user

and rename all the files which contains given text

.bak

os.path.exists checks whether a file or directory exists:

```
>>> os.path.exists('memo.txt')
True
```

If it exists, os.path.isdir checks whether it's a directory:

```
>>> os.path.isdir('memo.txt')
False
>>> os.path.isdir('music')
True
```

Similarly, os.path.isfile checks whether it's a file.

os.listdir returns a list of the files (and other directories) in the given directory:

```
>>> os.listdir(cwd)
['music', 'photos', 'memo.txt']
```

1. copy a .html file from network in myfile.txt (a html page use view source)

design pattern for finding out domain names and write those domain names in to another file

(use regexp, filehandling)

2. give 192.168.1 as input attach 1 to 254 numbers to it

and check which of the following ip are online

(use OS, subprocess,sys,urllib)

3. find how many messages are there in file

/var/log/messages which are BIOS messages or vmware messages

How many messages have got logged today

---

check for subprocess module Popen() function

OS.system function

---

file handling

create a file

This

This is line

This is l

thi is

display all lines in right indented manner

o/p

--------This

This is line

---This is l

------thi is