Assignment 2 Report

Problem 1:

Definition: The purpose Problem 1 is to find out how many of the given string is in the given path, without discriminating uppercase and lowercase letters, and return the number it finds.

Program Code:

import os from glob import glob

givenString = input("Enter string: ") #input string

PATH = "C:\src\python_projects" #define path.

files = [b for a in os.walk(PATH) for b in glob(os.path.join(a[0], '*'))] #give all file

takenString = givenString givenString = givenString.lower()#for discriminating uppercase and lowercase count = 0

for i in files:

if i.lower().find(givenString) != -1: #finding file with the same name as input count = count+1

Program Outputs:

Enter string: list

5 occurences for string list

Discussions: There is no problem with Problem 1.

Problem 2:

Definition: The purpose of Problem 2 is to return true if the elements of the two given lists are the same, and if the elements of the two lists are not the same, write a function that returns which elements are different.

Program Code:

```
def isPermutations(list1, list2):#take parameter as two list
  l1 = sorted(list1)#sort a using the sorted (built in) function and assign c.
  l2 = sorted(list2)#sort b using the sorted (built in) function and assign d.
  requiredElementsList1=[]#additional for l1
  requiredElementsList2 =[] # additional for I2
  if (I1 == I2):#contol the list elements
    return True
  else:
    count = 0#the number of elements that should be added to the lists.
    for i in range (1,len(l1)):
      if I1[i] not in I2:
         for j in range (len(l1)):
             if(l1[j] not in l2):
                requiredElementsList2.append(I1[j])#elements that should be added to I2 were found and these
                count+=1
                                                      # elements were added to a new list.
      elif I2[i] not in I1:
         for k in range(len(l2)):
           if(I2[k] not in I1):
             requiredElementsList1.append(I2[k])#elements that should be added to I1 were found and these
             count+=1
                                                     # elements were added to a new list.
      else:
         requiredElementsList2.append(I1[i])#If the same element exists, these elements are added to the list again.
         count+=1
        return print("list1 needs {} ,list2 needs {} to make them permutations
        .".format(requiredElementsList1,requiredElementsList2))
print(isPermutations([10, 9, 11, 1], [9, 1, 11, 10]))
print(isPermutations([10, 9, 1, 10], [8, 1, 11, 10]))
        Program Outputs:
```

True

list1 needs [8, 11], list2 needs [9, 10] to make them permutations.

Discussions: There is no problem with Problem 2.

Problem 3:

Definition: The purpose of Problem 3 is to create all sub strings that may consist of the strings given to it (must be in the order of letters in the given string) and print them in a list format.

Program Code:

```
def findSubString(givenString, lengthOfGivenString):#find and print all sub strings.
    sublists=[]#the resulting sublists are added to this list.
    print("[")
    for iter in range(1, lengthOfGivenString + 1):
        for i in range(lengthOfGivenString - iter + 1):
            j = i + iter - 1
            for k in range(i, j + 1):
                sublists.append(givenString[k])#append givenString to the sublists.
                print(sublists[k],end=",")#print sublists.
                print()
                print("]")
subString = input("Enter string: ") #give string
findSubString(subString, len(subString))
```

Program Outputs:

```
Testing "akraba"
[
a,
k,
r,
a,
b,
a,
a,k,
k,r,
r,a,
a,b,
b,a,
a,k,r,
k,r,a,
r,a,b,
a,b,a,
a,k,r,a,
k,r,a,b,
r,a,b,a,
a,k,r,a,b,
k,r,a,b,a,
a,k,r,a,b,a,
]
```

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```
• Testing "kaya"
    [
    k,
    a,
    у,
    a,
    k,a,
    a,y,
    y,a,
    k,a,y,
    a,y,a,
    k,a,y,a,
    ]
  Testing "keskin"
    [
    k,
    e,
    s,
    k,
    i,
    n,
    k,e,
    e,s,
    s,k,
    k,i,
    i,n,
    k,e,s,
    e,s,k,
    s,k,i,
    k,i,n,
    k,e,s,k,
    e,s,k,i,
    s,k,i,n,
    k,e,s,k,i,
    e,s,k,i,n,
    k,e,s,k,i,n,
    ]
```

Discussions: There is no problem with Problem 3.