

In [8]:

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#Day3 20 january 2021 Assignment2
'''
Question 1
Write a Python program to remove empty List from List.
Question 2
Write a Python program to remove all duplicates words from a given sentence
Question 3
Write a Python program to find all occurrences of a character in the given string
'''

#que1 - Write a Python program to remove empty List from List.
list_a = [2,55,[2,4], 987, [],['anand',23],[],[],['mirzapur','kaleen bhaiya','khiladi',786]]
list_b = []
for i in list_a:
    if i != []:
        list_b.append(i)
    else:
        0
print("you provided the list : ",list_a)
print("Here is new list with no empty list list : ",list_b,"\n\n")

#que2 - Write a Python program to remove all duplicates words from a given sentence
words = "I am very very happy that i am using python as python is one of the best programming language i i"
lst = words.lower().split(" ")
new = []
freq = []
for i in lst:
    if(lst.count(i)==1 and i not in new ):
        new.append(i)
        freq.append((i,lst.count(i)))
    elif(lst.count(i) > 1 and i not in new):
        new.append(i)
        freq.append((i,lst.count(i)))
    else:
        freq.append((i,lst.count(i)))

print("here is frequency of words in list : ",freq)
print("Below is new list with duplicates removed : ")
print(' '.join(new),"\n\n")

#que3 - Write a Python program to find all occurrences of a character in the given string
name = "Anand Prabhakar"
character = "A"
for i in range(len(name)):
    if name[i].upper() == character:
        print(character," occurs at index no. ",i)
print("\n\n")
```

you provided the list : [2, 55, [2, 4], 987, [], ['anand', 23], [], [], ['mirzapur', 'kaleen bhaiya', 'khiladi', 786]]

Here is new list with no empty list list : [2, 55, [2, 4], 987, ['anand', 23], ['mirzapur', 'kaleen bhaiya', 'khiladi', 786]]

here is frequency of words in list : [('i', 4), ('am', 2), ('very', 2), ('very', 2), ('happy', 1), ('that', 1), ('i', 4), ('am', 2), ('using', 1), ('python', 2), ('as', 1), ('python', 2), ('is', 1), ('one', 1), ('of', 1), ('the', 1), ('best', 1), ('programming', 1), ('language', 1), ('i', 4), ('i', 4)]

Below is new list with duplicates removed :

i am very happy that using python as is one of the best programming language

A occurs at index no. 0
A occurs at index no. 2
A occurs at index no. 8
A occurs at index no. 11
A occurs at index no. 13