

Untitled

August 25, 2021

1 1. Write a Python program to sum all the items in a list

```
[1]: myList = [1,2,3,4,5,6,7,8,1156,1,564]

sum = 0
for i in myList:
    sum = sum + i

print(sum)
```

1757

2 2. Write a Python program to get the largest number from a list.

```
[2]: myList = [1,2,3,4,5,6,7,8,1156,1,564]

print(max(myList))
```

1156

3 3. Write a Python program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples

```
[3]: myList = [(10, 'b') , (20, 'a') , (30, 'c')]

sortedList = sorted(myList , key=lambda x : x[-1])

print(sortedList)
```

[(20, 'a'), (10, 'b'), (30, 'c')]

4 4. Write a Python program to remove duplicates from a list

```
[4]: myList = [1,2,3,4,5,6,7,8,1156,1,564]

newList = list(set(myList))

print(newList)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 1156, 564]
```

5 5. Write a Python program to find the list of words that are longer than n from a given list of words

```
[5]: wordList = ["hello" , "harsh" , "don" , "john" , "king" , "boi"]

n = 3

longerThanN = []

for i in wordList:
    if(len(i) > n):
        longerThanN.append(i)

display(longerThanN)
```

```
['hello', 'harsh', 'john', 'king']
```

6 6. Write a Python program to get the difference between the two lists

```
[8]: list1 = [1,2,3,4]
list2 = [4,2,5,6]

# list1 - list2
for i in list1:
    if(i in list2):
        list1.remove(i)

print(list1)
```

```
[1, 3]
```

7. Write a Python script to add a key to a dictionary

```
[10]: mydict = {"hello" : 1 , "harsh" : 2}

mydict["newKey"] = None

print(mydict)
```

```
{'hello': 1, 'harsh': 2, 'newKey': None}
```

8. Write a Python script to concatenate following dictionaries to create a new one.

Sample Dictionary :

```
dic1={1:10, 2:20}
```

```
dic2={3:30, 4:40}
```

```
dic3={5:50,6:60}
```

Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

```
[15]: dic1={1:10, 2:20}

dic2={3:30, 4:40}

dic3={5:50,6:60}

dic1.update(dic2)
dic1.update(dic3)

print(dic1)
```

```
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

```
[16]: # or
dic1={1:10, 2:20}

dic2={3:30, 4:40}

dic3={5:50,6:60}

newDict = {**dic1 , **dic2 , **dic3}

print(newDict)
```

```
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

9. Write a Python program to remove a key from a dictionary

```
[17]: dic1={1:10, 2:20}

# here key is passed
dic1.pop(1)

print(dic1)
```

{2: 20}

10. Write a Python program to multiply all the items in a dictionary

```
[18]: dic1={1:10, 2:20}

mul = 1

# key = i , value = j
for i,j in dic1.items():
    mul = mul * i * j

print(mul)
```

400