

Assignment-4 (List ,tuple and Dictionary)

I. Write a Python function that takes a list and returns a new list with unique elements of the first list.

Sample List : [1,2,3,3,3,3,4,5]

Unique List : [1, 2, 3, 4, 5]

II. Write a python program to show the permutation and combination of a inputted List.

III. Copy element 44 and 55 from the following tuple into a new tuple tuple1 = (11, 22, 33, 44, 55, 66)

IV. Modify the first item (22) of a list inside a following tuple to 222 tuple1 = (11, [22, 33], 44, 55)

V. Below are the two lists convert it into the dictionary keys = ['Ten', 'Twenty', 'Thirty'] values = [10, 20, 30]

VI. Merge following two Python dictionaries into one dict1 = {'Ten': 10, 'Twenty': 20, 'Thirty': 30} dict2 = {'Thirty': 30, 'Forty': 40, 'Fifty': 50}

VII. Check if a value 200 exists in a dictionary sampleDict = {'a': 100, 'b': 200, 'c': 300}

VIII. Rename key city to location in the following dictionary

sampleDict = { "name": "Kelly", "age": 25, "salary": 8000, "city": "New york" }

IX. Get the key corresponding to the minimum value from the dictionary above.

X. data_set = [{'a': 'one', 'b': 'two', 'c': 'three', 'd': 'four', 'e': 'five', 'f': 'six'}]

How to extract key-value pairs in bold from dictionary in list?

```
k=list(data_set[0].keys())
```

```
val=list(data_set[0].values())
```

How to add these extracted key-value pairs to new dictionary

```
newDict=dict()
```

```
for i in range(len(k)):
```

```
    newDict[k[i]]=val[i]
```

How to convert new dictionary to list?

```
newList=[]
```

```
newList.append(newDict)
```