

Basic Dictionary Questions

1) 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}

2) Write a Python script to generate and print a dictionary that contains a number (between 1 and n) in the form (x, x*x).

Sample Dictionary (if n = 5) :

Expected Output : {1: 1, 2: 4, 3: 9, 4: 16, 5: 25}

3) Write a Python program to sum all the value in a dictionary.

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

Output=210

4) Write a Python program to sort a dictionary by key.

Sample :-

**Dictionary:{6:'ram',1:'Shiva',4:'Rahul',2:'Shub',3:'Aman',
5: 'rohit'}**

**Expected Result : {1:'Shiva', 2: 'Shub', 3:'Aman',
4:'Rahul', 5: 'rohit', 6:'ram'}**

**5)Write a Python program to combine two dictionary
adding values for common keys.**

d1 = {'a': 100, 'b': 200, 'c':300,'e':700}

d2 = {'a': 200, 'b': 200, 'd':400,'e': 200}

**Sample output: Counter({'a': 300, 'b': 400, 'd': 400, 'c':
300,'e':900})**

**6) Write a Python program to create and display all
combinations of letters, selecting each letter from a
different key in a dictionary.**

Sample data : {'1':['a','b'], '2':['c','d']}

Expected Output:

ac

ad

bc

bd

7) Write a Python program to create a dictionary from a string. Go to the editor

Note: Track the count of the letters from the string.

Sample string : 'shiva is back'

Expected output: {'s': 2, 'h': 1, 'i': 2, 'v': 1, 'a': 2, 'b': 1, 'c': 1, 'k': 1}

8) Write a Python program to get the top three items in a shop.

Sample data: {'item1': 45.50, 'item2': 35, 'item3': 41.30, 'item4': 55, 'item5': 24}

Expected Output:

item4 55

item1 45.5

item3 41.3

9) Write a Python program to convert a given dictionary into a list of lists.

Original Dictionary:

{1: 'red', 2: 'green', 3: 'black', 4: 'white', 5: 'black'}

Convert the said dictionary into a list of lists:

[[1, 'red'], [2, 'green'], [3, 'black'], [4, 'white'], [5, 'black']]

10) Write a Python program to drop empty Items from a given Dictionary.

Original Dictionary:

`{'c1': 'Red', 'c2': 'Green', 'c3': ''}`

New Dictionary after dropping empty items:

`{'c1': 'Red', 'c2': 'Green'}`

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