

ASSIGNMENT DICTIONARIES

Q1 Write a Python program to count the number of characters (character frequency) in a string.

Q2 Write a Python program to convert list to list of dictionaries.

Sample lists: ["Black", "Red", "Maroon", "Yellow"], ["#000000", "#FF0000", "#800000", "#FFFF00"]

Expected Output: [{'color_name': 'Black', 'color_code': '#000000'}, {'color_name': 'Red', 'color_code': '#FF0000'}, {'color_name': 'Maroon', 'color_code': '#800000'}, {'color_name': 'Yellow', 'color_code': '#FFFF00'}]

Q3 Write a Python script to sort (ascending and descending) a dictionary by value.

Q4 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}

Q5 Write a Python script to check if a given key already exists in a dictionary.

Q6 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 (n = 5) :

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

Q7 Write a Python program to sum all the items in a dictionary.

Q8 Write a Python program to combine two dictionary adding values for common keys.

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d1 = {'a': 100, 'b': 200, 'c': 300}
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d2 = {'a': 300, 'b': 200, 'd': 400}
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Sample output: Counter({'a': 400, 'b': 400, 'd': 400, 'c': 300})

Q9 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

Q10 Write a Python program to create a dictionary from a string.

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

Sample string : 'w3resource'

Expected output: {'3': 1, 's': 1, 'r': 2, 'u': 1, 'w': 1, 'c': 1, 'e': 2, 'o': 1}

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