

DICTIONARY

1. **Write a python program to print name and marks of students.**

For e.g.

Input: Name = ["abc", "def"] & marks= [89, 98]

Output: {"student1": {"Name": "abc", "Marks": 89},
"student2": {"Name": "def", "Marks": 98}}

2. **Write a python program to count the frequency in a list using dictionary.**

For e.g.

Input: [1, 1, 1, 5, 5, 3, 1, 3, 3, 1, 4, 4, 4, 2, 2, 2, 2]

Output: {1: 5, 5: 2, 3: 3, 4: 3, 2: 4} □ {Number: Count}

3. **Write a python program to reverse the order of dictionary.**

For e.g.

The original dictionary: {'is': 2, 'best': 5, 'insideaiml': 4}

The reversed order dictionary: {"insideaiml": 4, "best": 5, "is": 2}

4. **Write a python program to check prime number from a list, then create a dictionary.**

For e.g.

Input: [1, 2, 22, 34, 37, 21, 19, 23]

Output: {1: "Not a Prime", 2: "Prime", 22: "Not a Prime", 34: "Not a Prime", 37: "Prime", 21: "Not a Prime", 19: "Prime", 23: "Prime"}

5. **Write a python program to group elements from list and then construct a dictionary.**

For e.g.

Input: [4, 6, 6, 4, 2, 2, 4, 8, 5, 8]

Output: {4: [4, 4, 4], 6: [6, 6], 2: [2, 2], 8: [8, 8], 5: [5]}

6. **Write a python program to replace words from Dictionary.**

For e.g.

Input: test_str = "INSIDEAIML is the best platform for geeks to learn and earn"

Replace_dict = {"geeks": "candidates"}

Output: "INSIDEAIML is the best platform for candidates to learn and earn"

7. **Write a python program to sort the dictionary by its value, if values are same then given priority to keys in alphabetic order.**

For e.g.

Input: {"Aman": 88, "Richa": 78, "Poonam": 99, "Moaaz": 100, "Prithvi": 99}

Output: {"Moaaz": 100, "Poonam": 99, "Prithvi": 99, "Aman": 88, "Richa": 78}

8. Write a python program to convert nested dictionary into mapped tuple.

For e.g.

Input: {'insideaiml': {'x': 5, 'y': 6, 'z': 3}, 'best': {'x': 8, 'y': 3, 'z': 5}}

Output: [('x', (5, 8)), ('y', (6, 3)), ('z', (3, 5))]

9. Write a python program to extract value from nested dictionary.

For e.g.

Input : test_dict = {'insideaiml' : {'a' : 7, "b" : 9, "c" : 12}, 'is' : {'a' : 15, "b" : 19, "c" : 20}, 'best' : {'a' : 5, "b" : 10, "c" : 2}} and k = "b"

Output: [9, 10, 19]

10. Write a Python program to get all possible two-digit letter combinations from a 1-9 digit string.

11. Write a python program to create a dictionary of top 5 student along with marks.

- Who got top 5 ranks, in the descending order of marks?**
- Who got least 5 ranks, in the increasing order of marks?**
- Who got marks between >25th percentile <75th percentile, in the increasing order of marks?**

Students =

['student1', 'student2', 'student3', 'student4', 'student5', 'student6', 'student7', 'student8', 'student9', 'student10']

Marks = [45, 78, 12, 14, 48, 43, 47, 98, 35, 80]

