Programs based on Python Dictionary for Practical file

1. Write a Python script to sort (ascending and descending) a dictionary by value.
2. Write a Python script to add a key to a dictionary.
   Sample Dictionary : {0: 10, 1: 20}
   Expected Result : {0: 10, 1: 20, 2: 30}
3. 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}
4. Write a Python script to check whether a given key already exists in a dictionary.
5. 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}
6. Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys.
   Sample Dictionary
   {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}
7. Write a Python script to merge two Python dictionaries.
8. Write a Python program to sum and multiply all the items in a dictionary.
9. Write a Python program to sort a dictionary by key.
10. Write a Python program to remove duplicate values from Dictionary.

11. Write a Python program to combine two dictionary adding values for common keys.
    d1 = {'a': 100, 'b': 200, 'c':300}
    d2 = {'a': 300, 'b': 200, 'd':400}
    Sample output: Counter({'a': 400, 'b': 400, 'd': 400, 'c': 300})
12. Write a Python program to find the highest 3 values in a dictionary.
13. 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
14. Write a Python program to filter a dictionary based on values.
    Original Dictionary:
    {'Cierra Vega': 175, 'Alden Cantrell': 180, 'Kierra Gentry': 165, 'Pierre Cox': 190}
    Marks greater than 170:
    {'Cierra Vega': 175, 'Alden Cantrell': 180, 'Pierre Cox': 190}