Programming, Data Structures And Algorithms Using Python - Week 4

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Contents covered in Week 4 lectures:

- Mergesort
- Quicksort
- Tuples
- Dictionaries
- Function definition
- List comprehension

Program 1

Q. Write a Program to print sum of all the values in the dictionary

Input: {"a": 1, "b": 7, "c": 12}

Output: 20

Program 2

Write a program to remove an element from the dictionary where key of the element is given

Input: {"a": 1, "b": 7, "c": 12}, key = "b"

Output: {"a": 1, "c": 12}

Program 3

Write a program to remove duplicate string from the values in dictionary

Input: {1: 'Elephant is strong and Lion is also strong', 2: 'Hi Hello Hi How are you Hello'}

Output:

Elephant is strong and Lion also

Hi Hello How are you

Program 4

Write a program to add tuples

Input:

t1 = (1, 2, 3, 4)

t2 = (5, 6, 7, 8)

t3 = (7, 5, 4, 0)

Output:

(13, 13, 14, 12)

Program 5

Write a program to remove duplicates from tuples

Input: (1, 2, 3, 3, 2, 1, 2, 3, 4, 5, 3, 6)

Output:

(1, 2, 3, 4, 5, 6)