

# Python Coding Questions - Set, Dictionary, Tuple

## SET - Python Coding Questions

1. Write a function to return the union of two sets.
2. Write a program to find common elements between two sets.
3. Write a function to check if one set is a subset of another.
4. Given two sets, return the difference (elements in set A not in B).
5. Find elements present in either of the two sets but not both.
6. Write a program that removes a given element from a set (use discard).
7. Write a program to extract unique words from a string using sets.
8. Convert a list with duplicates into a set and return it.
9. Write a function to check if two sets have no elements in common.
10. Create a set of squares for numbers from 1 to 10 using set comprehension.

## DICTIONARY - Python Coding Questions

1. Count the frequency of characters in a string using a dictionary.
2. Write a function to return the key with the highest value in a dictionary.
3. Write a function that swaps keys and values of a dictionary.
4. Merge two dictionaries into a single one.
5. Write a function to check if a key exists in a dictionary.
6. Sort a dictionary by its values in ascending order.
7. Write a program to remove a specific key from a dictionary.
8. Write code to sum all the values in a dictionary.
9. Write a function that creates a dictionary from two lists: keys and values.
10. Write a function to find duplicate values in a dictionary.

## TUPLE - Python Coding Questions

## Python Coding Questions - Set, Dictionary, Tuple

1. Write a program to find the sum of all numbers in a numeric tuple.
2. Write a function that converts a list to a tuple.
3. Write a program that converts a tuple of characters into a single string.
4. Write a function that finds the index of a given value in a tuple.
5. Write a program to count how many times a value appears in a tuple.
6. Unpack a tuple into individual variables and print them.
7. Write a program to reverse the elements of a tuple.
8. Access a specific value from a nested tuple like `t = (1, (2, 3), 4)`.
9. Write a function to check if an element exists in a tuple.
10. Remove an item from a tuple (hint: convert to list and back to tuple).