**TASK SHEET 3**

1. Given two dictionaries, merge them into a single dictionary.
2. Write a program that finds the most frequent element in a list.
3. Implement a Function that removes a key-value pair from a dictionary
4. Create a program that checks if two sets have any elements in common.
5. Given a list of dictionaries, find the dictionary with the highest value for a specific key.
6. Write a Python program that counts the number of occurrences of each character in a given string using a dictionary.
7. Given two sets, find the union, intersection, and difference between them.
8. Create a function that takes a list of dictionaries and sorts them based on a specified key.
9. Write a program that finds the average value of all the elements in a list of dictionaries.
10. Implement a function that takes a list of strings and returns a set of unique characters present in all strings.
11. Write a function that recursively flattens a nested dictionary structure into a single dictionary.
12. Create a program that efficiently finds the kth largest element in a list.
13. Implement a function that calculates the Jaccard similarity between two sets.
14. Write a program that efficiently finds the intersection of multiple sets.
15. Design a function that performs matrix multiplication for two-dimensional lists or numpy arrays.