Assignment

Lists:

1. Write a Python program to find the sum of all elements in a list.
2. Write a function to remove duplicates from a list.
3. Create a program to reverse a list without using built-in functions.
4. Write a function to find the maximum and minimum elements in a list.
5. Implement a program to sort a list of integers in ascending order without using built-in sorting functions.

Tuples:

1. Write a Python program to find the length of a tuple.
2. Implement a function to concatenate two tuples.
3. Write a program to find the index of an element in a tuple.
4. Create a program to count the occurrences of an element in a tuple.
5. Write a function to check if two tuples have any elements in common.

Dictionaries:

1. Write a Python program to iterate over a dictionary and print key-value pairs.
2. Implement a function to merge two dictionaries.
3. Write a program to find the keys corresponding to the maximum and minimum values in a dictionary.
4. Create a function to check if a key exists in a dictionary.
5. Write a program to sort a dictionary by its values in ascending order.

Sets:

1. Write a Python program to create a set and perform basic set operations (union, intersection, difference).
2. Write a program to check if two sets have any elements in common.