7. Working with Dictionaries

Theory:

• Iterating over a dictionary using loops.

• Merging two lists into a dictionary using loops or zip().

• Counting occurrences of characters in a string using dictionaries.

 **Iterating Over a Dictionary Using Loops**

* You can use a for loop to iterate over a dictionary's keys, values, or both:
  + **Keys**: Iterate through dictionary keys.
  + **Values**: Use the .values() method to iterate through values.
  + **Key-Value Pairs**: Use the .items() method to iterate through both keys and values.

 **Merging Two Lists into a Dictionary Using Loops or zip()**

* **Using Loops**: Iterate over two lists simultaneously to create a dictionary where one list represents keys and the other represents values.
* **Using zip()**: Combine two lists directly into a dictionary using the dict() constructor with zip().

 **Counting Occurrences of Characters in a String Using Dictionaries**

* A dictionary can be used to store each character as a key and its frequency as the corresponding value.