6. Dictionaries

Theory:

• Introduction to dictionaries: key-value pairs.

• Accessing, adding, updating, and deleting dictionary elements.

• Dictionary methods like keys(), values(), and items()

 **Introduction to Dictionaries: Key-Value Pairs**  
A dictionary is a data structure in Python that stores data as key-value pairs.

* **Keys**: Unique identifiers that act as labels for values.
* **Values**: Data associated with keys, which can be of any data type.

 **Accessing, Adding, Updating, and Deleting Dictionary Elements**

* **Accessing**: Retrieve the value by using its corresponding key.
* **Adding**: Add a new key-value pair to the dictionary.
* **Updating**: Modify the value of an existing key.
* **Deleting**: Remove a key-value pair using specific operations.

 **Dictionary Methods**

* **keys()**: Returns a view of all keys in the dictionary.
* **values()**: Returns a view of all values in the dictionary.
* **items()**: Returns a view of all key-value pairs in the dictionary as tuples.