Day 6 – Python Training

Tuples are similar to lists, but they are **immutable**, meaning once a tuple is created, it **cannot be changed**.

Syntax of a Tuple:

Tuples are defined using round brackets () and can store multiple values separated by commas.

Operations performed:

- 1. **count()** Tells how many times a specific value appears in the tuple.
- 2. **len()** Tells the total number of elements in the tuple.
- 3. **Mapping of Tuples** Pairing elements from two tuples using the function.

Assignment:

- Create two tuples: one containing names of students, and another with their marks.
- Map both tuples using a suitable function to show which student got how many marks.
- Write the result as a single combined tuple showing all pairs.

Key Points:

- Tuples use round brackets ().
- They are immutable.
- Useful for storing fixed sets of values.
- Commonly used functions: count(), len(), and zip() for mapping.

Dictionaries:

- Dictionaries are unordered collections of key-value pairs.
- Each item has a unique key and a corresponding value.
- Dictionaries are **mutable**, so we can add, remove, or update values.

 They are useful for storing data that needs to be looked up quickly using keys.

Important Dictionary Operations:

- **keys()** Returns all keys in the dictionary.
- values() Returns all values.
- items() Returns all key-value pairs.
- get() Returns the value for a specific key.
- update() Adds or updates key-value pairs.
- pop() Removes a key-value pai