PYTHON-BASIC TO INTERMEDIATE

Learn with N@ima

Day 4

Lists and Tuples

Python List



Lists are used to store multiple items in a single variable.



Python lists are containers to store a set of values of any data type.



List1 = ["apple", "banana", 6, false]

List indexing

List indexing:

A list can be indexed just like a string.

L1 = ["apple", "banana", 6, false]

L1[2] →6

List Methods

- 1. The sort() method sorts the list ascending by default.
- 2. The reverse() method reverses the sorting order of the elements.
- 3. The append() method appends an element to the end of the list.
- 4. The insert() method inserts the specified value at the specified position.
- 5. The pop() method removes the element at the specified position.
- 6. The remove() method removes the first occurrence of the element with the specified value.

Tuple

A **tuple** is an **immutable** data type in python.

- ❖ Immutable means cannot change.
- ordered and
- unchangeable
- Allow Duplicates
- Tuples are written with round brackets.

Tuple Methods

Python has two built-in methods that you can use on tuples.

- 1. The count() method returns the number of times a specified value appears in the tuple. **tuple.count**(value)
- 2. The index() method finds the first occurrence of the specified value. The index() method raises an exception if the value is not found. **tuple.index**(value)

Practice Work

- 1. Write a program to store seven names in a list by the user.
- 2. Write a program to accept marks of 9 students and display them in a sorted manner.
- 3. Write a program to count the number of 2's in the following tuple: x = (4, 2, 5, 2, 6, 2)
- 4. Write a program to sum a list with 5 numbers.



THANK YOU

