**# Collection, functions and modules**

1. **What is List? How will you reverse a list?**

-> Lists are used to store multiple items in a single variable

-> Reversing list by swapping present and last numbers at a time. Using the reversed() and reverse() built-in function

1. **How will you remove last object from a list? Suppose list1 is [2, 33, 222, 14, and 25], what is list1 [-1]?**

-> To remove last object in list we use pop operation.to pop or delete last object.list1[-1] in Python is the last element of the list. In this case, list1[-1] would be 25, the last element of the list.

1. **Differentiate between append () and extend () methods?**

->The append() function adds the full input to the list as a single item.

->extend() adds each item to the list independently after iterating through each one in the input.

1. **How will you compare two lists?**

-> sort() method sorts the two lists and the == operator compares the two lists item by item which means they have equal data items at equal positions.

1. **What is tuple? Difference between list and tuple.**

-> Lists are mutable, which means they can be changed. The tuple is immutable, which means it cannot be changed. The set is mutable, which means that we can change it. However, no elements are duplicated

1. **How will you create a dictionary using tuples in python?**

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* In the first step, we have created a function that takes tuple and dictionary as an input.
* After this, we have used for loop to use the setdefault() and append the subject name and the subject code.
* Now we have initialized the values of our tuple and declared the resultant dictionary as {}.
* On executing the above program, the expected output is displayed.