**Python arrays**

An array is a container which can hold a fix number of items and these items should be of the same type.

The most important terms to understand the concept of array are

* Element:- Each item stored in an array is called as an Item
* Index:- To locate an element in an array Index is used

**Basic operation**

* Traverse: - printing all the array elements one by one.
* Insertion:- Adds an element at the given index
* Deletion: - Deletes an element at a given index.
* Search: - Searches an element using the given Index.
* Updation: - Updates an element at the given index.

**Accessing array elements**

We can access each element of an array using the index of the element.

**Insertion operation**

Insert operation is to insert one or more data elements into an array. Based on the requirement, a new element can be added at the beginning, end, or any given index using the in-built insert() method.

**Deletion operation**

Deletion operation refers to removing an existing element from the array and re-organizing all the elements of an array using the in-built remove() function.

**Search operation**

We can perform a search for an array element based its value or its index. We can search a data element using python in-built index() method.

**Updation operation.**

Update operation refers to updating an existing element from the array at any given index. We simply reassign a new value t the desired index we want to update.