



* Introduction to lists :->

When we need to go to market for buying / purchasing items, we prepare a list of items to be purchased. We mention grocery items, vegetables, fruits, dairy products, etc to be purchased in one list.

List
<ul style="list-style-type: none">• Sugar : 5Kg• Rice : 2Kg• Sauce : 1N• Potato : 1Kg• Tomato : 1Kg• Apple : 1kg• Cheese : 200g• Butter : 500g

Similarly, we have concept of list python to store data.

A list is a data structure in which

- mixed data can be stored.
- size can be changed i.e. entries can be added / removed.
- data can be changed i.e. values can be modified.



A list is a very useful datatype or data structure because it can store int, character, float, string simultaneously. Elements of lists are enclosed in square braces `[]` and are separated by comma, .

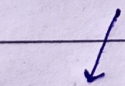
Example :-

- Integer List: `lst1 = [1, 2, 3, 4, 5, 6]`
- Char List: `lst2 = ['a', 'b', 'c', 'd', 'e', 'f']`
- Float List: `lst3 = [14.7, 76.8, 91.3, 7.83]`
- String List: `lst4 = ['Ajay', 'Aman', 'Raj', 'Yash']`

* Initialization and Creation of a List.

Syntax :-

`<List_name> = [L1, L2, L3 ---- Ln]`



Initialization



Creation.

- Characters and strings are enclosed by single or double codes.
- Integers and float (decimals) are not enclosed in codes. If done, they are converted to "String".