mylist = ["apple", "banana", "cherry"]

List

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

Lists are one of 4 built-in data types in Python used to store collections of data, the other 3 are [Tuple](https://www.w3schools.com/python/python_tuples.asp), [Set](https://www.w3schools.com/python/python_sets.asp), and [Dictionary](https://www.w3schools.com/python/python_dictionaries.asp), all with different qualities and usage.

Lists are created using square brackets:

thislist = ["apple", "banana", "cherry"]  
print(thislist)

## List Items

List items are ordered, changeable, and allow duplicate values.

List items are indexed, the first item has index [0], the second item has index [1] etc.

## Ordered

When we say that lists are ordered, it means that the items have a defined order, and that order will not change.

If you add new items to a list, the new items will be placed at the end of the list.

## Changeable

The list is changeable, meaning that we can change, add, and remove items in a list after it has been created.

thislist = ["apple", "banana", "cherry", "apple", "cherry"]  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
print(thislist[1])

change the items

thislist = ["apple", "banana", "cherry"]  
thislist[1] = "blackcurrant"  
print(thislist)

thislist = ["apple", "banana", "cherry", "orange", "kiwi", "mango"]  
thislist[1:3] = ["blackcurrant", "watermelon"]  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
thislist.insert(2, "watermelon")  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
thislist.append("orange")  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
thislist.insert(1, "orange")  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
tropical = ["mango", "pineapple", "papaya"]  
thislist.extend(tropical)  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
thistuple = ("kiwi", "orange")  
thislist.extend(thistuple)  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
thislist.remove("banana")  
print(thislist)

thislist = ["apple", "banana", "cherry"]  
del thislist

thislist = ["apple", "banana", "cherry"]  
for i in range(len(thislist)):  
  print(thislist[i])

thislist = ["apple", "banana", "cherry"]  
i = 0  
while i < len(thislist):  
  print(thislist[i])  
  i = i + 1

thislist = ["apple", "banana", "cherry"]  
[print(x) for x in thislist]