

Q.1 Explain list with proper Example?

→ In python, a list is created by placing all the items inside a square brackets [], separated by commas. It can have any number of items and they may be different types.

Eg:

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

Q.2 List out all the Method list?

→ append() clear() copy() count()  
extend() index() insert() pop()  
remove() reverse() sort()

Q.3 List out the function of list?

→ len() max() min() list(seq)

Q.4 What is the difference between remove, delete, clear and pop?

→ The remove() method removes the first matching element from the list.



The `pop()` method removes the item at the given index from the list and returns the removed item.

The `clear()` method removes all items from the list.

The `del[-:-]` method deletes all the elements in the range starting from index `til` and mentioned in argument.

Q.5 How to compare two list? Write down Syntax?

→ There is `cmp()` method with the help of which we can compare two list.

Syntax:

`cmp(list1, list2)`

Q.6 How to create nested list? Write down code for it?

→ `L = ['a', ['b', ['c', 'd']]]`

`list = ['a', ['b', ['c', 'd']], 'e', 'f']`



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Q.7 Which function will use for multiplication of two list?

There are basically two methods through which we can multiply two lists -

⇒ Naive method

```
test-list1 = [1, 3, 4, 6, 8]
test-list2 = [4, 5, 6, 2, 10]
```

```
print ("Original list 1: " + str(test-list1))
print ("Original list 2: " + str(test-list2))
```

```
res-list = []
```

```
for i in range(0, len(test-list1)):
    res-list.append(test-list1[i] * test-list2[i])
```

```
print ("Resultant list is: " + str(res-list))
```

⇒ Using List Comprehension

```
res-list = [test-list1[i] * test-list2[i] for i in
             range(len(test-list1))]
```

```
print ("Resultant list is: " + str(res-list))
```