Code Snippets on List

1) List Append

```
List1 = [123, 'xyz', 456, 'abc'];
List1.append( 2017 );
print "Updated List : ", List1
```

2) List Compare

```
list1= [123,456]
list2=[123,456]
print cmp(list1, list2)
list3=[123,'abc']
list4=[456,'xyz']
print cmp(list3,list4)
```

3) List Count

```
List1 = [123, 200, 456, 200];
print "Count of  List1 for 123: ", List1.count(123)
print "Count of  List1 for 200: ", List1.count(200)
listlength=len(List1)
print(listlength)
```

4) List Delete

```
my_list = ['p','r','o','g','r','a','m','m','i','n','g']
# delete one item
del my_list[2]
```

```
print(my_list)
# delete multiple items
del my_list[1:5]
print(my_list)
# delete entire list
del my_list
```

5) List Index

```
List1 = [123, 200, 456, 500];
print "Count of  List1 for 123: ", List1.index(123)
print "Count of  List1 for 200: ", List1.index(200)
```

6) List Insert

```
List1 = [123, 200, 456, 500];
List1.insert(3,600)
print "Updated List after insertion 600: ", List1
List1.insert(1,1000)
print "Updated List after insertion 1000: ", List1
```

7) List Length

```
list1, list2 = [10, 'xyz', 'abc'], [220, 'abc']
print "Length of First list  : ", len(list1)
print "Length of Second list : ", len(list2)
```

8) List Max

```
list1, list2 = [10, 20, 300], ['aaa', 'abc','cde','zzz']
print "Max of First list  : ", max(list1)
print "Max of Second list : ", max(list2)
```

9) List Min

```
list1, list2 = [10, 20, 300], ['aaa', 'abc','cde','zzz']
print "Min of First list  : ", min(list1)
print "Min of Second list : ", min(list2)
```

10) List Pop

```
List1 = [123, 200, 456, 500];
List1.pop(2)
print "Updated List after pop 2 operation: ", List1
List1.pop(0)
print "Updated List after pop 0 operation: ", List1
```

11) List Reverse

```
List1 = [123, 'aaa', 'bbb', 'ccc', 'ddd'];
List1.reverse();
print "List reverse function: ", List1
```

12) List Pop

```
List1 = ['xyz', 'zzz', 'abc', 'xyz'];
List1.sort();
```

```
print "List sorted is: ", List1
```

Code Snippets on Tuple

1) Tuple Count

```
# vowels tuple
vowels = ('a', 'e', 'i', 'o', 'i', 'o', 'e', 'i', 'u')
# count element 'i'
count = vowels.count('i')
# print count
print('The count of i is:', count)
# count element 'p'
count = vowels.count('p')
# print count
print('The count of p is:', count)
```

2) Tuple Index

```
# vowels tuple
vowels = ('a', 'e', 'i', 'o', 'i', 'u')
# element 'e' is searched
index = vowels.index('e')
# index is printed
print('The index of e:', index)
# element 'i' is searched
index = vowels.index('i')
# only the first index of the element is printed
print('The index of i:', index)
```

3) Tuple Length

```
testTuple1 = (1, 2, 3)
print(testTuple1, 'length is', len(testTuple1))
testTuple2 = ("abc", "xyz", "lmn")
print(testTuple2, 'length is', len(testTuple2))
```

4) Tuple Max

```
print('Maximum is:', max(1, 3, 2, 5, 4))
num = [1, 3, 2, 8, 5, 10, 6]
print('Maximum is:', max(num))
```

5) Tuple Min

```
print('Minimum is:', min(1, 3, 2, 5, 4))
num = [3, 2, 8, 5, 10, 6]
print('Minimum is:', min(num))
```

6) Tuple Type

```
my_tuple = ("hello")
print(type(my_tuple))
my_tuple = ("hello",)
print(type(my_tuple))
```

Code Snippets on Dictionary

1) Dictionary initialization

```
dict1 = {'name':'rajesh', 'age': 26}

print(dict1['name'])

print(dict1['age'])
```

2) Dictionary Addition of an element

```
dict1 = {'name':'rajesh', 'age': 26}

print(dict1)

dict1['age'] = 27

#Output: {'age': 27, 'name': 'rajesh'}

print(dict1)


dict1 = {'name':'rajesh', 'age': 26}

print(dict1)

dict1['address'] = 'hubli'

print(dict1)
```

3) Dictionary Deletion of an element

```
dict = {1: "one", 2: "two"}

dict.clear()

print('after clear method dictionary is  =', dict)
```

4) Dictionary Pop of an element

```
person = {'name': 'Akash', 'age': 29, 'salary': 10000.0}

result = person.popitem()

print('person = ',person)

print('Return Value = ',result)
```