

**4.1.4 LIST LOOP:**

A loop is to access all the elements in a list.

```
>>> a=['apple','mango','lime','orange']
>>> print(a) → ['apple','mango','lime','orange'] # displays all at a time
>>> print(a[0]) → 'apple'
```

**i) Method 1:**

```
for var in a:
    print(a) #displays all at a time
```

**Output:**

The loop goes on 4 times and print all values

```
'apple','mango','lime','orange'
'apple','mango','lime','orange'
'apple','mango','lime','orange'
'apple','mango','lime','orange'
```

**ii) Method 2:**

```
for var in a:
    print(var) #displays a item at a time
```

**Output:**

The loop goes on 4 times and print items one by one.

```
'apple'
'mango'
'lime'
'orange'
```

**iii) Method 3**

```
>>>i=0
>>> for var in a:
```

```

        print("I like",a[i])
    i=i+1

```

**Output:**

The value of i makes the loop to goes on 4 times and print items one by one.

```

'apple'
'mango'
'lime'
'orange'

```

**1. Write a python program to print the items in the list using while loop.**

```

>>>a=['apple','mango','lime','orange']
>>>i=0
>>>while len(a)>i:
    print("I like",a[i])
    i=i+1

```

**Output:**

The value of i makes the loop to goes on 4 times and print items one by one.

```

'apple'
'mango'
'lime'
'orange'

```

**4.1.5 LIST ARE MUTABLE:**

Unlike String, List is mutable (changeable) which means we can change the elements at any point.

**Ex:**

```

>>>a=['apple','mango','lime','orange']
>>>a[0]='grape'
>>>print(a) → 'grape', 'mango','lime','orange'

```