```
## Printing of list
fruit=['apple','banana','guava','pineapple']
print(fruit)
print(fruit[0])
print(fruit[-1])
print(fruit[0:2])
print(fruit[:2])
print(fruit[1:])
```

```
['apple', 'banana', 'guava', 'pineapple']
apple
pineapple
['apple', 'banana']
['apple', 'banana']
['banana', 'guava', 'pineapple']
```

Code Text

```
## Append
fruit=['apple','banana','guava','pineapple']
print(fruit)
fruit.append('mango')
print(fruit)
```

```
['apple', 'banana', 'guava', 'pineapple']
['apple', 'banana', 'guava', 'pineapple', 'mango']
```

Code Text

```
## Inserting an element
fruit=['apple','mango','guava']
print(fruit)
fruit.insert(2,'orange')
print(fruit)
```

```
['apple', 'mango', 'guava']
['apple', 'mango', 'orange', 'guava']
```

Code Text

```
## Extend
fruit=['apple','banana','guava']
fruits=['orange','mango','kiwi']
fruit.extend(fruits)
print(fruit)
```

```
['apple', 'banana', 'guava', 'orange', 'mango', 'kiwi']
```

Code Text

```
## Remove an element
fruit=['apple','banana','guava','mango']
print(fruit)
fruit.remove('mango')
print(fruit)
```

```
['apple', 'banana', 'guava', 'mango']
['apple', 'banana', 'guava']
```

Code Text

```
details=['name','rollno','marks']
## Printing
print(details)
## Inserting
details.insert(3,'address')
print(details)
## Adding
details.append('village')
```

```
print(details)
## Removing
details.remove('marks')
print(details)
## Pop
details.pop(2)
print(details)
## Delete
del details[1]
print(details)
## Clear
details.clear()
print(details)
```

```
['name', 'rollno', 'marks']
['name', 'rollno', 'marks', 'address']
['name', 'rollno', 'marks', 'address', 'village']
['name', 'rollno', 'address', 'village']
['name', 'rollno', 'village']
['name', 'village']
[]
```

Code Text

```
num=['05','45','25','12','85','54']
print(num)
## Sort in assending
num.sort()
print(num)
## Sort in decending
num.sort(reverse=True)
print(num)
```

```
['05', '45', '25', '12', '85', '54']
['05', '12', '25', '45', '54', '85']
['85', '54', '45', '25', '12', '05']
```

Code Text

```
alphabet=['a','b','C','d','B']
print(alphabet)
alphabet.sort()
print(alphabet)
alphabet.sort(reverse=True)
print(alphabet)
```

```
['a', 'b', 'C', 'd', 'B']
['B', 'C', 'a', 'b', 'd']
['d', 'b', 'a', 'C', 'B']
```

Code Text

```
## Length
num=['05','45','25','12','85','54']
print(num)
print(len(num))
```

```
['05', '45', '25', '12', '85', '54']
6
```

Code Text

```
## Copy list
rainbow=['violet','indigo','blue','green','yellow','orange','red']
colours=rainbow.copy()
print(colours)
```

```
['violet', 'indigo', 'blue', 'green', 'yellow', 'orange', 'red']
```

Code Text

```
## Joining of lists
colours=['red','blue','green','yellow']
fruits=['apple','grapes','kiwi','orange']
print(colours+fruits)
```

```
['red', 'blue', 'green', 'yellow', 'apple', 'grapes', 'kiwi', 'orange']
```

Code Text

```
## Changing an element
colours=['orange','red','green','yellow']
colours[1]=['grey']
print(colours)
```

```
['orange', ['grey'], 'green', 'yellow']
```

Code Text

```
## Printing th index of an item
colours=['orange','red','green','yellow']
colours.index('red')
```

```
1
```

Code Text

```
## Replcing items
colours=['orange','red','green','yellow']
colours[1:3]=['grey']
print(colours)
```

```
['orange', 'grey', 'yellow']
```

Code Text

```
## using for loop
colours=['orange','red','green','yellow']
for i in range(1, 3):
  print(colours[i])
```

```
red
```

```
green
```

Code Text

```
## using while loop
colours=['orange','red','green','yellow']
i=0
while i<3:
  print(colours[i])
  i=i+1
```

```
orange
red
green
```

Code Text

```
## Changing all elements in list into upper case
colours=['orange','red','green','yellow']
COLOURS=[i.upper() for i in colours]
print(COLOURS)
```

```
['ORANGE', 'RED', 'GREEN', 'YELLOW']
```

Code Text

```
a
 I
 I
 I
```

```
[9, 85, 52, 98, 55]
```

Code Text

```
a
 (
 (
 I
```

```
['purple', 'purple', 'purple', 'purple']
```

Code Text

*values: object, hint