```
1  # 1
2
3  it is an empty list
```

In [ ]:

```
1  # 2
2
3  spam[2]="hello"
```

In [ ]:

```
1  # 3
2
3  d
```

In [ ]:

```
1  # 4
2
3  d
```

In [1]:

```
1  # 5
2  ['a','b']
```

['a', 'b']

In [ ]:

```
1  # 6
2
3  1
```

In [ ]:

```
1  # 7
2
3  bacon:[3.14,'cat',11,'cat',True,99]
```

In [ ]:

```
1  # 8
2
3  bacon:[3.14,11,'cat',True,99]
4
```

In [ ]:

```
1  # 9
2
3  list concatination : +
4  list replication : *
```

In [ ]:

```
1  # 10
2
3
4  append(): this will add elemenmt after the laast element of the lisst
5  insert(): this will add insert he element in the specified index number inside the insert method
```

In [ ]:

```
1  # 11
2
3  pop()
4  remove()
```

In [ ]:

```
1  # 12
2
3  both list and string elements can be accessed using indexing
```

In [ ]:

```
1  # 13
2
3  lists are mutable
4  tuples  are immutable
```

In [ ]:

```
1  # 14
2
3  t=(42,)
```

In [2]:

```
1  # 15
2
3  l=[1,2,3]
4  t=(4,5,6)
5  listtotuple=tuple(l)
6  tupletpolist=list(t)
7  print(listtotuple)
8  print(tupletpolist)
```

```
(1, 2, 3)
[4, 5, 6]
```

In [ ]:

```
1  # 16
2
3  lists may contain differnt values like integers,doublowes,string,tuples,lists,complex,dictionaries etc.....
```

In [ ]:

```
1  # 17
2
3   copy() : returns a shallow copy of the list.
4  deepcopy() : returns a deep copy of the list.
```