

```
In [1]: a = [3, 10, -1]
```

```
In [2]: print(a)
```

```
[3, 10, -1]
```

```
In [3]: a.append(1)
```

```
In [4]: print(a)
```

```
[3, 10, -1, 1]
```

```
In [5]: a.append("hello")
```

```
In [6]: print(a)
```

```
[3, 10, -1, 1, 'hello']
```

```
In [7]: a.append([1,2])
```

```
In [8]: print(a)
```

```
[3, 10, -1, 1, 'hello', [1, 2]]
```

```
In [9]: a.pop()  
print(a)
```

```
[3, 10, -1, 1, 'hello']
```

```
In [10]: a.pop(3)  
print(a)
```

```
[3, 10, -1, 'hello']
```

```
In [11]: a[0]
```

```
Out[11]: 3
```

```
In [12]: print(a[3])
```

```
hello
```

```
In [13]: #items in the list are given indexes starting from 0,1,2,3.... in order  
# to change the value of a number in the list, do as show below, e.g replace 3 with 100
```

```
a[0] = 100 print(a)
```

```
In [19]: #quiz- Swap first item with the last item  
b = ["banana", "apple", "microsoft"]
```

```
In [20]: # 1st Method  
temp = b[0]  
b[0] = b[2]  
b[2] = temp  
print(b)
```

```
['microsoft', 'apple', 'banana']
```

```
In [21]: # 2nd Method  
b[0], b[2] = b[2], b[0]  
print(b)
```

```
['banana', 'apple', 'microsoft']
```

```
In [ ]: #predefined functions to use in list  
    .append    === add an item to the list  
    .pop       ==== delete the last item on the list  
    a[0] b[0] a[1] === used to retrieve value in the specified position on the list
```