

## DAY3

### LIST

```
a=[1,2,3]
```

```
type(a)
```

```
<class 'list'>
```

```
a=[1,8,9,10]
```

```
type(a)
```

```
<class 'list'>
```

```
a=[1,4,7.8,"patna",10]
```

```
a=[1,62.5,"ankit",10,[1,2,3,"new"]]
```

```
len(a)
```

```
5
```

```
a[2]
```

```
'ankit'
```

```
a[-4]
```

```
62.5
```

```
a[2:5]
```

```
['ankit', 10, [1, 2, 3, 'new']]
```

```
a
```

```
[1, 62.5, 'ankit', 10, [1, 2, 3, 'new']]
```

```
a[2]='nielit'
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new']]
```

```
a.append(100)
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100]
```

```
a.append("ankit")
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit']
```

```
b=a.append(20)
```

```
b
```

```
type(b)
```

```
<class 'NoneType'>
```

```
a.append(20)
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit', 20, 20]
```

```
b=a
```

```
b
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit', 20, 20]
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit', 20, 20]
```

```
a.pop()
```

```
20
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit', 20]
```

```
a.pop()
```

```
20
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100, 'ankit']
```

```
a.pop()
```

```
'ankit'
```

```
a
```

```
[1, 62.5, 'nielit', 10, [1, 2, 3, 'new'], 100]
```

```
a.pop(1)
```

```
62.5
```

```
a
```

```
[1, 'nielit', 10, [1, 2, 3, 'new'], 100]
```

```
a.remove(10)
```

```
a
```

```
[1, 'nielit', [1, 2, 3, 'new'], 100]
```

```
a.insert(2,75.8)
```

```
a
```

```
[1, 'nielit', 75.8, [1, 2, 3, 'new'], 100]
```

```
a.reverse()
```

```
a
```

```
[100, [1, 2, 3, 'new'], 75.8, 'nielit', 1]
```

```
a=[1,2,3,'new']
```

```
a.reverse()
```

```
a
```

```
['new', 3, 2, 1]
```

```
a=[10,22,33,2,17,8,55,19,7]
```

```
a.sort()
```

```
a
```

```
[2, 7, 8, 10, 17, 19, 22, 33, 55]
```

```
a.sort(reverse=True)
```

```
a
```

```
[55, 33, 22, 19, 17, 10, 8, 7, 2]
```

```
a=['a','e','x','d','n','z','c']
```

```
a.sort()
```

```
a
```

```
['a', 'c', 'd', 'e', 'n', 'x', 'z']
```

```
a=[1,10.5,"ankit",[1,5,"nielit"],5,90.8]
```

```
a[3][2]
```

```
'nielit'
```

## Dictionary

```
a={'key1':10,'key2':20,'key3':30}
```

```
a={'key1':10,'key2':20,'key3':30}
```

```
a={'k1':10,'k2':10.5,'k3':"nielit",'k4':[1,2,3]}
```

```
a['k3']="patna"
```

```
a
```

```
{'k1': 10, 'k2': 10.5, 'k3': 'patna', 'k4': [1, 2, 3]}
```

```
a['k5']=200
```

```
a
```

```
{'k1': 10, 'k2': 10.5, 'k3': 'patna', 'k4': [1, 2, 3], 'k5': 200}
```

```
a.items()
```

```
dict_items([('k1', 10), ('k2', 10.5), ('k3', 'patna'), ('k4', [1, 2, 3]), ('k5', 200)])
```

```
a.keys()
```

```
dict_keys(['k1', 'k2', 'k3', 'k4', 'k5'])
```

```
a.values()
```

```
dict_values([10, 10.5, 'patna', [1, 2, 3], 200])
```

```
a.pop()
```

Traceback (most recent call last):

File "<pyshell#64>", line 1, in <module>

```
a.pop()
```

TypeError: pop expected at least 1 argument, got 0

```
a.pop('k4')
```

```
[1, 2, 3]
```

```
a
```

```
{'k1': 10, 'k2': 10.5, 'k3': 'patna', 'k5': 200}
```