

```
In [2]: a=true  
print(type(a))
```

```
<class 'str'>
```

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

```
4
```

```
In [4]: a=[1,2,3,'fun']  
print(type(a))  
print(len(a))
```

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

```
4
```

```
In [5]: print(a[1])
```

```
2
```

```
In [8]: a.append('balu')  
print(a)
```

```
[1, 2, 3, 'fun', 'balu']
```

```
In [9]: a[0]='ram'  
print(a)
```

```
['ram', 2, 3, 'fun', 'balu']
```

```
In [12]: for i in a:  
          print(i)
```

```
ram
```

```
2
```

```
3
```

```
fun
```

```
balu
```

```
In [19]: b=[]  
print(type(b))  
print(b)  
print(len(b))
```

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

```
[]
```

```
0
```

```
In [22]: print(len(a[0]))
```

```
3
```

```
In [23]: c=a  
print(c)
```

```
['ram', 2, 3, 'fun', 'balu']
```

```
In [24]: for i in range(5):  
          print(i)
```

```
0
```

```
1
```

```
2
```

```
3
```

```
4
```

```
In [25]: d=a+c  
print(d)  
  
['ram', 2, 3, 'fun', 'balu', 'ram', 2, 3, 'fun', 'balu']
```

```
In [32]: d.insert(33,67)  
print(d)  
  
['ram', 2, 2, 3, 'fun', 'balu', 'ram', 2, 3, 'fun', 'balu', 44, 67]
```

```
In [35]: d.insert(0,25)  
print(d)  
  
[25, 25, 'ram', 2, 2, 3, 'fun', 'balu', 'ram', 2, 3, 'fun', 'balu', 44, 67]
```

```
In [36]: print(a)  
  
['ram', 2, 3, 'fun', 'balu']
```

```
In [37]: a.pop(0)  
print(a)  
  
[2, 3, 'fun', 'balu']
```

```
In [38]: a.pop()  
print(a)  
  
[2, 3, 'fun']
```

```
In [39]: a.extend(c)  
print(a)  
  
[2, 3, 'fun', 2, 3, 'fun']
```

```
In [40]: print(a)  
  
[2, 3, 'fun', 2, 3, 'fun']
```

```
In [42]: for i in range(5):  
        print(i)  
  
0  
1  
2  
3  
4
```

```
In [44]: for i in range(5):  
        print(i*i)  
  
0  
1  
4  
9  
16
```

```
In [ ]: for i in range(5):  
        print(i+i)
```

```
In [92]: for i in range(len(a)):  
        print(a[i])  
print(a)  
print(len(a))
```

```
2
3
fun
2
3
fun
[2, 3, 'fun', 2, 3, 'fun']
6
```

```
In [62]: for i in a:
        print(i,a.index(i))
```

```
2 0
3 1
fun 2
2 0
3 1
fun 2
```

```
In [64]: print(a)

[2, 3, 'fun', 2, 3, 'fun']
```

```
In [70]: pas={1,2,3,4,5,'dev'}
        print(type(pas))
        print(pas)

<class 'set'>
{1, 2, 3, 4, 5, 'dev'}
```

```
In [76]: i=0
        while i < len(a):
            print(a[i])
            i=i+1
        print(a)
```

```
2
3
fun
2
3
fun
[2, 3, 'fun', 2, 3, 'fun']
```

```
In [82]: print(a)
        a.sort()
        print(a)

[2, 3, 'fun', 2, 3, 'fun']
```

```
-----
TypeError                                Traceback (most recent call last)
~\AppData\Local\Temp\ipykernel_5788\3179356262.py in <module>
      1 print(a)
----> 2 a.sort()
      3 print(a)

TypeError: '<' not supported between instances of 'str' and 'int'
```

```
In [84]: list=['hello','everyone','super']
        list.sort()
        print(list)
```

```
['everyone', 'hello', 'super']
```

```
In [85]: list=['hello','everyone','super']  
list.reverse()  
print(list)  
  
['super', 'everyone', 'hello']
```

```
In [89]: list.remove('hello')  
print(list)  
  
['super', 'everyone']
```

```
In [94]: print(pas)  
print(type(pas))  
  
{1, 2, 3, 4, 5, 'dev'}  
<class 'set'>
```

```
In [ ]:
```

```
In [96]: ben=['hello','every','sem','hello']  
for i in ben:  
    print(ben.index(i))  
  
0  
1  
2  
0
```

```
In [98]: print(pas)  
print(type(pas))  
  
{1, 2, 3, 4, 5, 'dev'}  
<class 'set'>
```

```
In [127... abc=[1,4,6,7,8,9,9,]  
print(abc)  
print(abc[::-1])  
  
[1, 4, 6, 7, 8, 9, 9]  
[9, 9, 8, 7, 6, 4, 1]
```

```
In [ ]:
```

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In [ ]:
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In [ ]:
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In [ ]:
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In [ ]:
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In [ ]:
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In [ ]:
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