

```
In [5]: 15 = ['Asif', 25, [50, 100], [150, 90]]
```

```
In [7]: 15
```

```
Out[7]: ['Asif', 25, [50, 100], [150, 90]]
```

```
In [9]: print(len(15))
```

```
4
```

```
In [11]: 15.index(25)
15
```

```
Out[11]: ['Asif', 25, [50, 100], [150, 90]]
```

```
In [19]: 15.index('Asif')
```

```
Out[19]: 0
```

```
In [1]: 15.index([50,100])
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[1], line 1
----> 1 15.index([50,100])

NameError: name '15' is not defined
```

```
In [29]: 16=[30,12,{'vaishu','moonu'},{'kala','shiny'}]
16
```

```
Out[29]: [30, 12, {'moonu', 'vaishu'}, {'kala', 'shiny'}]
```

```
In [31]: 16.index('vaishu')
```

```
-----
ValueError                                Traceback (most recent call last)
Cell In[31], line 1
----> 1 16.index('vaishu')

ValueError: 'vaishu' is not in list
```

LIST SLICING

```
In [34]: mylist=['one',10,'two',20]
mylist
```

```
Out[34]: ['one', 10, 'two', 20]
```

```
In [36]: mylist[:]
```

Out[36]: ['one', 10, 'two', 20]

In [38]: `mylist[1:5]`

Out[38]: [10, 'two', 20]

In [40]: `mylist[:-4]`

Out[40]: []

In [42]: `mylist[: -3]`

Out[42]: ['one']

In [50]: `mylist[-4:-1]`

Out[50]: ['one', 10, 'two']

In [52]: `x=10`
`y=20`
`print(x)`

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[52], line 1  
----> 1 x=y  
      2 y=x  
      3 print(x)  
  
NameError: name 'y' is not defined
```

In [56]: `x=5`
`y=2`
`x//y`

Out[56]: 2

In [58]: `a='hello'`
`a[1:4]`

Out[58]: 'ell'

In [60]: `x=[10,30,50,20]`
`max(x)`

Out[60]: 50

In [64]: `x.len(30)`

```
-----  
AttributeError                                Traceback (most recent call last)  
Cell In[64], line 1  
----> 1 x.len(30)  
  
AttributeError: 'list' object has no attribute 'len'
```

```
In [66]: 15
```

```
Out[66]: ['Asif', 25, [50, 100], [150, 90]]
```

```
In [68]: 15.len(15)
```

```
-----  
AttributeError                                Traceback (most recent call last)  
Cell In[68], line 1  
----> 1 15.len(15)  
  
AttributeError: 'list' object has no attribute 'len'
```

```
In [70]: len(15)
```

```
Out[70]: 4
```

```
In [72]: x=20.3  
         int(x)
```

```
Out[72]: 20
```

```
In [77]: x
```

```
Out[77]: 20.3
```

```
In [79]: isinstance(x,int)
```

```
Out[79]: False
```

```
In [81]: type(x)
```

```
Out[81]: float
```

```
In [85]: s='20'  
         s
```

```
Out[85]: '20'
```

```
In [87]: int(20)
```

```
Out[87]: 20
```

```
In [89]: python  
         Copy code  
         print(type({}))
```

Cell In[89], line 2

Copy code

^

SyntaxError: invalid syntax

```
In [91]: l3=['a','b','g',1,5]
         print(l3.pop())
```

5

```
In [93]: var=2
         print(2==2.0)
```

True

```
In [95]: num=4+0j
         print(type(num))
```

<class 'complex'>

```
In [97]: num=3.9
         print(int(3.9))
```

3

```
In [99]: a='python'+".py"
         a
```

Out[99]: 'python.py'

```
In [105... print(str(True),end='')
           int('4.5')
```

True

```
-----
ValueError                                Traceback (most recent call last)
Cell In[105], line 2
      1 print(str(True),end='')
----> 2 int('4.5')
```

ValueError: invalid literal for int() with base 10: '4.5'

```
In [113... x = 50
          def fun1():
              x = 25
              print(x)

          fun1()
          print(x)
```

25

50

```
In [109... x = 75
          def myfunc():
              x = x + 1
              print(x)
```

```
myfunc()
print(x)
```

```
-----
UnboundLocalError                                Traceback (most recent call last)
Cell In[109], line 5
      3 x = x + 1
      4 print(x)
----> 5 myfunc()
      6 print(x)

Cell In[109], line 3, in myfunc()
      2 def myfunc():
----> 3 x = x + 1
      4 print(x)

UnboundLocalError: cannot access local variable 'x' where it is not associated with
a value
```

```
In [117... print(type(0xFF))
```

```
<class 'int'>
```

```
In [129... str1 = 'Ault\'Kelly'
str1
```

```
Cell In[129], line 1
    str1 = 'Ault\'Kelly'
              ^
SyntaxError: unterminated string literal (detected at line 1)
```

```
In [121... str1 = """Ault'Kelly"""
```

```
In [123... str1
```

```
Out[123... "Ault'Kelly"
```

```
In [125... str1 = 'Ault\'Kelly'
str1
```

```
Out[125... "Ault'Kelly"
```

```
In [ ]:
```