In [27]:

```python
a  = 5.5 + 1j
#you have to mention 1j instead of just j
```

In [28]:

```python
type(a)
```

Out[28]:

```
complex
```

In [29]:

```python
#sequence type
```

In [72]:

```python
s="""I am in the 2nd bench.
Nobody is cute here."""
```

In [73]:

```python
print(s)
```

```
I am in the 2nd bench.
Nobody is cute here.
```

In [75]:

```python
#lists
```

In [76]:

```python
l = ['python','language']
```

In [80]:

```python
l[0][1]
```

Out[80]:

```
'y'
```

In [98]:

```python
l[0][6:2:-1]
```

Out[98]:

```
'noh'
```

In [101]:

```python
L2 = [10,20,30,40,50]
```

In [103]:

```python
L2[4:]
```

Out[103]:

```
[50]
```

In [105]:

```python
L2[:2]
```

Out[105]:

```
[10, 20]
```

In [106]:

```python
L2+L2
```

Out[106]:

```
[10, 20, 30, 40, 50, 10, 20, 30, 40, 50]
```

In [108]:

```python
L2*2
```

Out[108]:

```
[10, 20, 30, 40, 50, 10, 20, 30, 40, 50]
```

In [109]:

```python
len(L2)
```

Out[109]:

```
5
```

In [110]:

```python
max(L2)
```

Out[110]:

```
50
```

In [111]:

```python
min(L2)
```

Out[111]:

```
10
```

In [112]:

```python
#tuples
```

In [113]:

```python
t=(1,2,3,4,5,6,7,8,4,4,6,6,6)
```

In [114]:

```python
co = t.count(4)
```

In [116]:

```python
print(co)
```

```
3
```

In [124]:

```python
i = t.index(6)
print(i)
```

```
5
```

In [123]:

```python
co = t.count(6)
print(co)
```

```
4
```

In [125]:

```python
for i in range(0,len(t)):
    if t[i]==6:
        print(i)
```

```
5
10
11
12
```

In [126]:

```python
t+t
```

Out[126]:

```
(1, 2, 3, 4, 5, 6, 7, 8, 4, 4, 6, 6, 6, 1, 2, 3, 4, 5, 6, 7, 8, 4, 4, 6, 6,
 6)
```

In [127]:

```python
t*3
```

Out[127]:

```
(1,
 2,
 3,
 4,
 5,
 6,
 7,
 8,
 4,
 4,
 6,
 6,
 6,
 1,
 2,
 3,
 4,
 5,
 6,
 7,
 8,
 4,
 4,
 6,
 6,
 6,
 1,
 2,
 3,
 4,
 5,
 6,
 7,
 8,
 4,
 4,
 6,
 6,
 6)
```

In [128]:

```python
t[2]=9
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-128-e8e93e40ab9d> in <module>
----> 1 t[2]=9

TypeError: 'tuple' object does not support item assignment
```

In [129]:

```python
#dictionary
```

In [139]:

```python
bio = {'name': 'Navaneeth', 'age': 20, 'semester':5, 'college': 'BMS'}
```

In [140]:

```python
print(bio)
```

```
{'name': 'Navaneeth', 'age': 20, 'semester': 5, 'college': 'BMS'}
```

In [141]:

```python
print(bio.keys())
```

```
dict_keys(['name', 'age', 'semester', 'college'])
```

In [142]:

```python
print(bio.values())
```

```
dict_values(['Navaneeth', 20, 5, 'BMS'])
```

In [146]:

```python
for a,b in bio.items():
    print(a,":",b)
```

```
name : Navaneeth
age : 20
semester : 5
college : BMS
```

In [150]:

```python
print(type(bio))
print(bio['name'])
print(bio.get('age'))
print(bio['age'])
```

```
<class 'dict'>
Navaneeth
20
20
```

In [152]:

```python
del bio['semester']
```

In [153]:

```python
for a,b in bio.items():
    print(a,":",b)
```

```
name : Navaneeth
age : 20
college : BMS
```

In [154]:

```python
len(bio)
```

Out[154]:

```
3
```

In [155]:

```python
str(bio)
```

Out[155]:

```
"{'name': 'Navaneeth', 'age': 20, 'college': 'BMS'}"
```

In [156]:

```python
#boolean
```

In [159]:

```python
print(type(true))
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-159-1c2838cf1bc6> in <module>
----> 1 print(type(true))

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

In [160]:

```python
print(type(True))
```

```
<class 'bool'>
```

In [162]:

```python
#print(type(false)) gives error
```

In [163]:

```python
print(type(False))
```

```
<class 'bool'>
```

In [ ]:

In [164]:

```python
#set
```

In [177]:

```python
s=set()
```

In [178]:

```python
print(s)
```

```
set()
```

In [179]:

```python
s={'J', 2, 3,'Python'}
```

In [180]:

```python
print(s)
```

```
{3, 'J', 2, 'Python'}
```

In [181]:

```python
s.add(40)
```

In [182]:

```
s
```

Out[182]:

```
{2, 3, 40, 'J', 'Python'}
```

In [183]:

```
s.remove(2)
```

In [184]:

```
s
```

Out[184]:

```
{3, 40, 'J', 'Python'}
```

In [ ]:

In [ ]: