```
In [1]:
a = 5.5 + 1j
# you have to mention 1j and not just j
In [2]:
type(a)
Out[2]:
complex
Sequence Type
In [3]:
s = """Hello I am
Deven"""
Out[3]:
'Hello I am \nDeven'
In [4]:
print(s)
Hello I am
Deven
lists
In [5]:
1 = ['python', 'language']
In [6]:
1[0][1]
Out[6]:
'y'
In [7]:
1[0][6:2:-1]
Out[7]:
'noh'
```

```
In [8]:
12 = [10, 20, 30, 40, 50]
In [9]:
12[4:]
Out[9]:
[50]
In [10]:
12[:2]
Out[10]:
[10, 20]
In [11]:
12+12
Out[11]:
[10, 20, 30, 40, 50, 10, 20, 30, 40, 50]
In [12]:
12 * 2
Out[12]:
[10, 20, 30, 40, 50, 10, 20, 30, 40, 50]
In [13]:
len(12)
Out[13]:
5
In [14]:
max(12)
Out[14]:
50
In [15]:
min(12)
Out[15]:
10
```

tuples

```
In [16]:
t = (1, 2, 3, 4, 5, 6, 7, 8, 4, 4, 6, 6, 6)
In [17]:
co = t.count(4)
In [18]:
print(co)
3
In [20]:
i = t.index(6)
Out[20]:
5
In [21]:
co = t.count(6)
In [22]:
со
Out[22]:
In [23]:
for i in range(0, len(t)): # range(len(t))
    if t[i] == 6:
        print(i)
5
10
11
12
In [25]:
for i, ele in enumerate(t):
    if ele == 6:
        print(i)
5
10
11
```

12

```
In [26]:
```

t+t

Out[26]:

(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 [27]:

t * 3

Out[27]:

(1,

`2,

3,

4,

5,

6,

7,

8, 4,

4,

6,

6,

6, 1,

2,

3,

4,

5,

6,

7,

8,

4, 4,

4, 6,

6,

6,

1,

2,

3, 4,

5,

6,

7,

8,

4,

4,

6,

6,

6)

```
In [28]:
t[2] = 9
                                           Traceback (most recent call last)
TypeError
~\AppData\Local\Temp/ipykernel_15808/15375751.py in <module>
---> 1 t[2] = 9
TypeError: 'tuple' object does not support item assignment
dictionary
In [29]:
bio = {
    'name': 'Deven',
    'age': 20,
    'semester': 5,
    'college': 'BMSCE'
}
In [30]:
bio
Out[30]:
{'name': 'Deven', 'age': 20, 'semester': 5, 'college': 'BMSCE'}
In [31]:
print(bio.keys())
dict_keys(['name', 'age', 'semester', 'college'])
In [32]:
bio.values()
Out[32]:
dict_values(['Deven', 20, 5, 'BMSCE'])
In [33]:
for a, b in bio.items():
    print(a, ":", b)
name : Deven
age : 20
semester: 5
college : BMSCE
```

```
In [35]:
print(type(bio))
print(bio['name'])
print(bio.get('age'))
print(bio['age'])
<class 'dict'>
Deven
20
20
In [36]:
del bio['semester']
In [37]:
for a, b in bio.items():
    print(a, ":", b)
name : Deven
age : 20
college : BMSCE
In [38]:
len(bio)
Out[38]:
3
In [39]:
str(bio)
Out[39]:
"{'name': 'Deven', 'age': 20, 'college': 'BMSCE'}"
boolean
In [41]:
print(type(true))
NameError
                                           Traceback (most recent call last)
~\AppData\Local\Temp/ipykernel_15808/61652065.py in <module>
----> 1 print(type(true))
NameError: name 'true' is not defined
```

```
In [42]:
print(type(True))
<class 'bool'>
In [43]:
print(type(False))
<class 'bool'>
set
In [44]:
s = set()
In [45]:
print(s)
set()
In [46]:
s = {"J", 2, 3, "Python"}
In [47]:
print(s)
{'J', 2, 3, 'Python'}
In [48]:
s.add(40)
In [49]:
s
Out[49]:
{2, 3, 40, 'J', 'Python'}
In [50]:
s.remove(2)
```

```
In [51]:
s
Out[51]:
{3, 40, 'J', 'Python'}
In [ ]:
```