In [1]:
```
#int
#float
#bool
#complex
#string
# In python 5 types of data type
```

Integer

In [2]:
```
#Integer

a = 10
```

In [3]:
```
type(a)
```

Out[3]:
```
int
```

In [4]:
```
i = -100
```

In [5]:
```
type(i)
```

Out[5]:
```
int
```

String

In [10]:
```
name = "Python"
name
```

Out[10]:
```
'Python'
```

In [7]:
```
name
```

Out[7]:
```
'Python'
```

In [8]:
```
print(type(name))
```

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

In [9]:
```
len(name)
```

Out[9]:
```
6
```

Float

In [11]:
```
x = 12.5
x
```

Out[11]: 12.5

In [12]:
```
type(x)
```

Out[12]: float

In [13]:
```
f = 1e0 # exponential
f
```

Out[13]: 1.0

In [14]:
```
f1 = 2e2 # only e letter is allow
f1
```

Out[14]: 200.0

In [15]:
```
type(f1)
```

Out[15]: float

Complex

In [25]:
```
c1 = 3 + 4j
c2 = 1 + 2j
print(c1)
print(c2)
```

```
(3+4j)
(1+2j)
```

In [18]:
```
c1
```

Out[18]: (3+4j)

In [19]:
```
c2
```

Out[19]: (1+2j)

In [20]:
```
type(c1)
```

Out[20]: complex

In [21]:
```
c1+c2
```

Out[21]: (4+6j)

In [22]:
```
c1.real
```

Out[22]: 3.0

In [23]:
```
c1.imag
```

Out[23]: 4.0

bool

In [32]:
```
p = True
q = False
```

In [28]:
```
p
```

Out[28]: True

In [29]:
```
q
```

Out[29]: False

In [27]:
```
type(p)
```

Out[27]: bool

In [30]:
```
print(p and q)
```

```
False
```

In [31]:
```
print(p or q)
```

```
True
```

In [ ]:
```
# datatype is completed
```