

## Type casting

```
In [1]: #Convert all other datatype to int  
int(3.5)
```

Out[1]: 3

```
In [2]: int(True)
```

Out[2]: 1

```
In [3]: int(False)
```

Out[3]: 0

```
In [4]: int(3.7,5.2)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[4], line 1  
----> 1 int(3.7,5.2)  
  
TypeError: 'float' object cannot be interpreted as an integer
```

```
In [5]: int(2+5j)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[5], line 1  
----> 1 int(2+5j)  
  
TypeError: int() argument must be a string, a bytes-like object or a real number, not 'complex'
```

```
In [6]: int('10')
```

Out[6]: 10

## Convert all other data type to float

```
In [8]: float(10)
```

Out[8]: 10.0

```
In [9]: float(True)
```

Out[9]: 1.0

```
In [11]: float(False)
```

Out[11]: 0.0

```
In [12]: float(5+3j)
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[12], line 1
----> 1 float(5+3j)

TypeError: float() argument must be a string or a real number, not 'complex'
```

```
In [14]: float('12')
```

```
Out[14]: 12.0
```

Convert other data type to complex

```
In [16]: complex(12)
```

```
Out[16]: (12+0j)
```

```
In [17]: complex(5.2)
```

```
Out[17]: (5.2+0j)
```

```
In [18]: complex(4,6)
```

```
Out[18]: (4+6j)
```

```
In [27]: complex(10,20,30)
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[27], line 1
----> 1 complex(10,20,30)

TypeError: complex() takes at most 2 arguments (3 given)
```

```
In [19]: complex(3.2,4.8)
```

```
Out[19]: (3.2+4.8j)
```

```
In [20]: complex(True)
```

```
Out[20]: (1+0j)
```

```
In [21]: complex(False)
```

```
Out[21]: 0j
```

```
In [22]: complex(True,False)
```

```
Out[22]: (1+0j)
```

```
In [23]: complex(False,True)
```

```
Out[23]: 1j
```

```
In [24]: complex('10')
```

Out[24]: (10+0j)

In [26]: `complex('10', '5')`

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[26], line 1  
----> 1 complex('10', '5')  
  
TypeError: complex() can't take second arg if first is a string
```

Convert other data type to boolean

In [28]: `bool(12)`

Out[28]: True

In [29]: `bool(0)`

Out[29]: False

In [30]: `bool(1.7)`

Out[30]: True

In [31]: `bool(0.5)`

Out[31]: True

In [32]: `bool(2+5j)`

Out[32]: True

In [33]: `bool('10')`

Out[33]: True

In [34]: `bool('Hello')`

Out[34]: True

In [35]: `bool( )`

Out[35]: False

Convert other data type to string

In [36]: `str(10)`

Out[36]: '10'

In [37]: `str(12.5)`

Out[37]: '12.5'

```
In [39]: print(str(10))  
         print(str(12.5))  
         print(str(True))  
         print(str(5+2j))
```

```
10  
12.5  
True  
(5+2j)
```

```
In [ ]:
```