

28

type casting

```
int(10)
```

```
10
```

```
int(5.4)
```

```
5
```

```
int(3+6j)
```

```
-----  
-----  
TypeError                                Traceback (most recent call  
last)  
Cell In[8], line 1  
----> 1 int(3+6j)
```

```
TypeError: int() argument must be a string, a bytes-like object or a  
real number, not 'complex'
```

```
int('10')
```

```
10
```

```
int('text')
```

```
-----  
-----  
ValueError                                Traceback (most recent call  
last)  
Cell In[12], line 1  
----> 1 int('text')
```

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

```
int(True)
```

```
1
```

```
int(False)
```

```
0
```

```
int(True+True)
```

2

```
int(False+True)
```

1

```
int(True+False)#boolean convert to int
```

1

```
float(10)
```

10.0

```
float(10,20)
```

```
TypeError                                Traceback (most recent call  
last)
```

```
Cell In[26], line 1
```

```
----> 1 float(10,20)
```

```
TypeError: float expected at most 1 argument, got 2
```

```
float(True)
```

1.0

```
float(False)
```

0.0

```
float(1+3j)
```

```
TypeError                                Traceback (most recent call  
last)
```

```
Cell In[32], line 1
```

```
----> 1 float(1+3j)
```

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

```
float('10')
```

10.0

```
float('ten')
```

```
ValueError                                Traceback (most recent call
last)
Cell In[36], line 1
----> 1 float('ten')
```

ValueError: could not convert string to float: 'ten'

```
complex(10)
```

```
(10+0j)
```

```
complex(10,20)
```

```
(10+20j)
```

```
complex(10,20,30)
```

```
-----
```

```
TypeError                                Traceback (most recent call
last)
Cell In[42], line 1
----> 1 complex(10,20,30)
```

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

```
complex(True,True)
```

```
(1+1j)
```

```
complex(False)
```

```
0j
```

```
complex('10')
```

```
(10+0j)
```

```
complex('10','20')
```

```
-----
```

```
TypeError                                Traceback (most recent call
last)
Cell In[50], line 1
----> 1 complex('10','20')
```

TypeError: complex() can't take second arg if first is a string