

## Type Casting

```
In [6]: int(3)
```

```
Out[6]: 3
```

```
In [8]: float(3.4)
```

```
Out[8]: 3.4
```

```
In [10]: int(3.4)
```

```
Out[10]: 3
```

```
In [12]: float(3)
```

```
Out[12]: 3.0
```

```
In [14]: int(true)
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[14], line 1  
----> 1 int(true)  
  
NameError: name 'true' is not defined
```

```
In [16]: int(True)
```

```
Out[16]: 1
```

```
In [18]: int(false)
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[18], line 1  
----> 1 int(false)  
  
NameError: name 'false' is not defined
```

```
In [20]: int(False)
```

```
Out[20]: 0
```

```
In [22]: float(True)
```

```
Out[22]: 1.0
```

```
In [24]: float(False)
```

```
Out[24]: 0.0
```

```
In [26]: int(3.4,4.5)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[26], line 1  
----> 1 int(3.4,4.5)  
  
TypeError: 'float' object cannot be interpreted as an integer
```

```
In [28]: int(4.6)
```

```
Out[28]: 4
```

```
In [30]: int(2+3j)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[30], line 1  
----> 1 int(2+3j)  
  
TypeError: int() argument must be a string, a bytes-like object or a real number,  
not 'complex'
```

```
In [32]: int('10')
```

```
Out[32]: 10
```

```
In [34]: int('ten')
```

```
-----  
ValueError                                Traceback (most recent call last)  
Cell In[34], line 1  
----> 1 int('ten')  
  
ValueError: invalid literal for int() with base 10: 'ten'
```

```
In [36]: complex(10)
```

```
Out[36]: (10+0j)
```

```
In [38]: complex(3.7)
```

```
Out[38]: (3.7+0j)
```

```
In [40]: complex(45,5.4)
```

```
Out[40]: (45+5.4j)
```

```
In [42]: complex(True)
```

```
Out[42]: (1+0j)
```

```
In [44]: complex(False)
```

```
Out[44]: 0j
```

```
In [46]: complex('10','10')
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[46], line 1  
----> 1 complex('10', '10')  
  
TypeError: complex() can't take second arg if first is a string
```

```
In [48]: complex('10')
```

```
Out[48]: (10+0j)
```

```
In [ ]:
```