

16 October 2025

python intro python interpreter, compiler, ide which ide we installed how to check python version name is called variable (variable == object == identifier) python datatype demo (who learned, what topic, placement, class,

Type Casting == convert from one data type to other datatype

```
In [1]: int(2.4)
```

```
Out[1]: 2
```

```
In [2]: int(2.4, 3.5)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[2], line 1  
----> 1 int(2.4, 3.5)
```

TypeError: 'float' object cannot be interpreted as an integer

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

```
Out[3]: 1
```

```
In [5]: int(false)
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[5], line 1  
----> 1 int(false)
```

NameError: name 'false' is not defined

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

```
Out[6]: 0
```

```
In [7]: int(True, False)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[7], line 1  
----> 1 int(True, False)
```

TypeError: int() can't convert non-string with explicit base

```
In [8]: int('10')
```

Out[8]: 10

In [9]: `int('ten')`

```
-----  
ValueError                                Traceback (most recent call last)  
Cell In[9], line 1  
----> 1 int('ten')  
  
ValueError: invalid literal for int() with base 10: 'ten'
```

In [10]: `int(1+2j)`

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[10], line 1  
----> 1 int(1+2j)  
  
TypeError: int() argument must be a string, a bytes-like object or a real number, not 'complex'
```

In [11]: `# all other datatype to float`
`float(200000)`

Out[11]: 200000.0

In [12]: `float(1+2j)`

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[12], line 1  
----> 1 float(1+2j)  
  
TypeError: float() argument must be a string or a real number, not 'complex'
```

In [13]: `float(10, 20)`

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[13], line 1  
----> 1 float(10, 20)  
  
TypeError: float expected at most 1 argument, got 2
```

In [14]: `float(True)`

Out[14]: 1.0

In [15]: `float(False)`

Out[15]: 0.0

In [16]: `float('10')`

Out[16]: 10.0

```
In [17]: float('ten')
```

```
-----  
ValueError                                Traceback (most recent call last)  
Cell In[17], line 1  
----> 1 float('ten')  
  
ValueError: could not convert string to float: 'ten'
```

```
In [18]: str(8)
```

```
Out[18]: '8'
```

```
In [19]: print(str(8.8))
```

```
8.8
```

```
In [20]: str(8.8)
```

```
Out[20]: '8.8'
```

```
In [21]: str(1+2j)
```

```
Out[21]: '(1+2j)'
```

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

```
Out[22]: 'True'
```

```
In [23]: str()
```

```
Out[23]: ''
```

```
In [24]: str(True, False)
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[24], line 1  
----> 1 str(True, False)  
  
TypeError: str() argument 'encoding' must be str, not bool
```

```
In [25]: bool(10)
```

```
Out[25]: True
```

```
In [26]: bool(1.5)
```

```
Out[26]: True
```

```
In [27]: bool()
```

```
Out[27]: False
```

```
In [28]: bool('10')
```

```
Out[28]: True
```

```
In [29]: bool('ten')
```

```
Out[29]: True
```

```
In [30]: bool(0)
```

```
Out[30]: False
```

```
In [31]: bool(1+2j)
```

```
Out[31]: True
```

```
In [32]: complex(10)
```

```
Out[32]: (10+0j)
```

```
In [33]: complex(10,20)
```

```
Out[33]: (10+20j)
```

```
In [34]: complex(10,20,30)
```

TypeError

Traceback (most recent call last)

Cell In[34], line 1

----> 1 complex(10,20,30)

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

```
In [35]: complex(10.20, 30)
```

```
Out[35]: (10.2+30j)
```

```
In [36]: complex(10.20, 30.8)
```

```
Out[36]: (10.2+30.8j)
```

```
In [37]: complex(True)
```

```
Out[37]: (1+0j)
```

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

```
Out[38]: 0j
```

```
In [39]: complex('10')
```

```
Out[39]: (10+0j)
```

```
In [40]: complex('10', '20')
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[40], line 1  
----> 1 complex('10', '20')  
  
TypeError: complex() can't take second arg if first is a string
```

```
In [41]: complex(True, False)
```

```
Out[41]: (1+0j)
```

```
In [ ]: #python type casting we are completed today
```

```
In [ ]:
```