



2nd typecasting

```
In [1]: int(100)
```

```
Out[1]: 100
```

```
In [2]: int(100.7)
```

```
Out[2]: 100
```

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

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

```
In [4]: int(False)
```

```
Out[4]: 0
```

```
In [5]: int("10")
```

```
Out[5]: 10
```

```
In [6]: int("ten")
```

```
-----  
ValueError  
Cell In[6], line 1  
----> 1 int("ten")
```

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

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

```
In [7]: float(10.6)
```

```
Out[7]: 10.6
```

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

```
Out[8]: 10.0
```

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

```
Out[9]: 1.0
```

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

```
Out[10]: 0.0
```

```
In [11]: float("10.8")
```

```
Out[11]: 10.8
```

```
In [12]: float('10.8','40.8')
```

```
-----  
TypeError                                                 Traceback (most recent call last)  
Cell In[12], line 1  
----> 1 float('10.8','40.8')  
  
TypeError: float expected at most 1 argument, got 2
```

```
In [13]: float("ten")
```

```
-----  
ValueError                                                 Traceback (most recent call last)  
Cell In[13], line 1  
----> 1 float("ten")  
  
ValueError: could not convert string to float: 'ten'
```

- we can type cast from other datatypes to int except 2 string parameter & text string.
- we can type cast from other datatypes to float except 2 string parameter & text string.

```
In [15]: complex(10)
```

```
Out[15]: (10+0j)
```

```
In [16]: complex(10,20)
```

```
Out[16]: (10+20j)
```

```
In [17]: complex('10')
```

```
Out[17]: (10+0j)
```

```
In [18]: complex(10.5,33.33)
```

```
Out[18]: (10.5+33.33j)
```

```
In [19]: complex(False,True)
```

```
Out[19]: 1j
```

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

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

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

```
Out[21]: 1j
```

```
In [22]: complex('10',15)
```

```
-----  
TypeError                                                 Traceback (most recent call last)  
Cell In[22], line 1  
----> 1 complex('10',15)  
  
TypeError: complex() can't take second arg if first is a string
```

```
In [23]: complex(10,'15')
```

```
-----  
TypeError                                                 Traceback (most recent call last)  
Cell In[23], line 1  
----> 1 complex(10,'15')  
  
TypeError: complex() second arg can't be a string
```

```
In [24]: complex('10','15')
```

```
-----  
TypeError                                                 Traceback (most recent call last)  
Cell In[24], line 1  
----> 1 complex('10','15')  
  
TypeError: complex() can't take second arg if first is a string
```

```
In [25]: complex('15')
```

```
Out[25]: (15+0j)
```

```
In [26]: complex(int('10'),int('15'))
```

```
Out[26]: (10+15j)
```

- we can type cast from other datatypes to complex except 2 string parameter & text string.

```
In [27]: print(str(2))
```

```
2
```

```
In [28]: str(2.3)
```

```
Out[28]: '2.3'
```

```
In [29]: str(True)
```

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

```
In [30]: str(1+2j)
```

```
Out[30]: '(1+2j)'
```

- we can type cast from other datatypes to string no issue at all.

```
In [31]: bool(10)
```

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

```
In [32]: bool(2.3)
```

```
Out[32]: True
```

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

```
Out[33]: False
```

```
In [34]: bool(0)
```

```
Out[34]: False
```

```
In [35]: bool(1+2j)
```

```
Out[35]: True
```

```
In [36]: bool("vital")
```

```
Out[36]: True
```

- we can type cast from other datatypes to bool no issue at all.

```
In [ ]:
```

```
In [ ]:
```