25th sep Type casting

```
In [ ]:
```

#convert all values to int

```
In [1]: int(2.3)
```

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

```
In [2]: int(2.3,5.4)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[2], line 1
----> 1 int(2.3,5.4)

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

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

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

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

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

```
In [5]: int(1+2j)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[5], line 1
----> 1 int(1+2j)

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

```
In [6]: iny('ten')
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[6], line 1
----> 1 iny('ten')

NameError: name 'iny' is not defined
```

```
In [7]: int('10')
```

```
Out[7]: 10
```

```
In [ ]:
```

Convert all other values to float

```
In [8]: float(13)
```

```
Out[8]: 13.0
```

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

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

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

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

```
In [11]: float('ten')
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[11], line 1
----> 1 float('ten')

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

```
In [12]: float('10')
```

```
Out[12]: 10.0
```

```
In [13]: float(1+2j)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[13], line 1
----> 1 float(1+2j)

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

In [ ]:

convert other data types to complex

In [14]: complex(10)

Out[14]: (10+0j)

In [15]: complex(0,8)

Out[15]: 8j

In [16]: complex(True)

Out[16]: (1+0j)

In [17]: complex(false)

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[17], line 1
----> 1 complex(false)

NameError: name 'false' is not defined
```

In [18]: complex(False)

Out[18]: 0j

In [20]: complex(True,False)

Out[20]: (1+0j)

In [21]: complex(10,20,82)

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[21], line 1
----> 1 complex(10,20,82)

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

In [22]: complex('13.5')

Out[22]: (13.5+0j)

In [ ]:

Convert all datatypes to boolean

In [23]: bool(1)

Out[23]: True

In [24]: bool(0)

Out[24]: False

In [25]: bool()

Out[25]: False

In [26]: bool(13.8)

Out[26]: True

In [27]: bool('string')

Out[27]: True

In [ ]:
```