type casting

integer

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

Out[2]: 2

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

Out[4]: 1

In [6]:
```
int('10')
```

Out[6]: 10

In [8]:
```
int('ten') #conversion of  aplhabetical to int string is not possible
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[8], line 1
----> 1 int('ten')

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

In [10]:
```
int(10+20j) #conversion of complex to int  is not possible
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[10], line 1
----> 1 int(10+20j)

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

float

In [14]:
```
float(20)
```

Out[14]: 20.0

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

Out[16]: 1.0

In [18]:
```
float(10+20J) #casting of complex to float is not possible
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[18], line 1
----> 1 float(10+20J)

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

In [20]:
```
float('10')
```

Out[20]: 10.0

In [22]:
```
float('ten') #conversion of alphabetical string to float is not possible
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[22], line 1
----> 1 float('ten')

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

complex

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

Out[25]: (10+0j)

In [27]:
```
complex(20.7)
```

Out[27]: (20.7+0j)

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

Out[29]: (1+0j)

In [31]:
```
complex('20')
```

Out[31]: (20+0j)

bool

In [34]:
```
bool(20)
```

Out[34]: True

In [36]:
```
bool(20.8)
```

Out[36]: True

In [38]:
```
bool(10+20j)
```

Out[38]: True

In [40]:
```
bool('nit')
```

Out[40]: True

In [42]:
```
bool()
```

Out[42]: False

In [44]:
```
bool(0)
```

Out[44]: False

string

In [47]:
```
str(48)
```

Out[47]: '48'

In [49]:
```
str(41.4)
```

Out[49]: '41.4'

In [51]:
```
str(True)
```

Out[51]: 'True'

In [53]:
```
str(10+20j)
```

Out[53]: '(10+20j)'

In [ ]:

In [ ]: