typecasting

In [1]:
```
int(3.4)
int('True')
int('5')
int(True)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[1], line 2
      1 int(3.4)
----> 2 int('True')
      3 int('5')
      4 int(True)

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

In [2]:
```
int(3.4)
#int('True')
int('5')
int(True)
```

Out[2]: 1

In [3]:
```
print(int(3.4))
#int('True')
print(int('5'))
print(int(True))
```

```
3
5
1
```

In [4]:
```
print(int(1+2j))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[4], line 1
----> 1 print(int(1+2j))

TypeError: int() argument must be a string, a bytes-like object or a real number, no
t 'complex'
```

In [5]:
```
int(9,7)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[5], line 1
----> 1 int(9,7)

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

In [6]:
```
float(4)
```

Out[6]: 4.0

In [7]:
```
float('True')
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[7], line 1
----> 1 float('True')

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

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

Out[8]: 1.0

In [9]:
```
float(6+9j)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[9], line 1
----> 1 float(6+9j)

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

In [10]:
```
float(9,8)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[10], line 1
----> 1 float(9,8)

TypeError: float expected at most 1 argument, got 2
```

In [11]:
```
float('7')
```

Out[11]: 7.0

In [12]:
```
str(8)
```

Out[12]: '8'

In [13]:
```
str(9.8)
```

Out[13]: '9.8'

In [14]:
```
str(True)
```

Out[14]: 'True'

In [15]:
```
print(str(True))
```

```
True
```

In [16]:
```
str('hgt')
```

Out[16]:
```
'hgt'
```

In [17]:
```
str(8+7j)
```

Out[17]:
```
'(8+7j)'
```

In [18]:
```
str('k','h')
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[18], line 1
----> 1 str('k','h')

TypeError: decoding str is not supported
```

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

Out[19]:
```
''
```

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

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

In [21]:
```
int()
```

Out[21]:
```
0
```

In [22]:
```
int(@)
```

```
  Cell In[22], line 1
    int(@)
        ^
SyntaxError: invalid syntax
```

In [23]:
```
bool(80)
```

Out[23]:
```
True
```

In [24]:
```
bool(l)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[24], line 1
----> 1 bool(l)

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

In [25]:
```
bool('iju')
```

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

In [26]:
```
bool(8.7)
```

Out[26]: True

In [27]:
```
bool(6+8j)
```

Out[27]: True

In [28]:
```
bool(False)
```

Out[28]: False

In [29]:
```
bool(0)
```

Out[29]: False

In [30]:
```
bool(9)
```

Out[30]: True

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

Out[31]: (1+2j)

In [32]:
```
complex(5,6)
```

Out[32]: (5+6j)

In [33]:
```
complex(,9)
```

```
  Cell In[33], line 1
    complex(,9)
            ^
SyntaxError: invalid syntax
```

In [34]:
```
complex(0,8)
```

Out[34]: 8j

In [35]:
```
complex(True,9)
```

Out[35]: (1+9j)

In [36]:
```
complex('True',8)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[36], line 1
----> 1 complex('True',8)

TypeError: complex() can't take second arg if first is a string
```

In [37]:
```
complex(8)
```

Out[37]: (8+0j)

In [38]:
```
complex(8.9)
```

Out[38]: (8.9+0j)

In [39]:
```
complex(1,2,3)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[39], line 1
----> 1 complex(1,2,3)

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

In [40]:
```
round(9.8765)
```

Out[40]: 10

In [41]:
```
round(9.87654,2)
```

Out[41]: 9.88

In [42]:
```
round(9.8712,2)
```

Out[42]: 9.87

In [43]:
```
name=('Rashmi \n Balurkar')
```

In [44]:
```
name
```

Out[44]: 'Rashmi \n Balurkar'

In [45]:
```
print(name)
```

```
Rashmi
 Balurkar
```

In [46]:
```
print(r(name))
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[46], line 1
----> 1 print(r(name))

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

In [47]:
```
print(r name)
```

```
  Cell In[47], line 1
    print(r name)
          ^
SyntaxError: invalid syntax. Perhaps you forgot a comma?
```

In [48]:
```
print(r 'Rashmi\nBalurkar')
```

```
  Cell In[48], line 1
    print(r 'Rashmi\nBalurkar')
            ^
SyntaxError: invalid syntax
```

In [49]:
```
print(rname)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[49], line 1
----> 1 print(rname)

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

In [51]:
```
print(r'Rashmi\nBalurkar')
```

```
Rashmi\nBalurkar
```

In [52]:
```
3*Rash+yum
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[52], line 1
----> 1 3*Rash+yum

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

In [53]:
```
3 * "rash" + "mi"
```

Out[53]:
```
'rashrashrashmi'
```

In [54]:
```
'Rash' 'mi'
```

Out[54]:
```
'Rashmi'
```

In [55]:
```
a = 'Rash'
a 'mi'
```

```
  Cell In[55], line 2
    a 'mi'
      ^
SyntaxError: invalid syntax
```

In [56]:
```
print(a[0])
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[56], line 1
----> 1 print(a[0])

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

In [57]:
```
a='Rash'
```

```
print(a[0])
```

```
R
```

In [58]:
```
print(a[-4])
```

```
R
```

In [ ]:
```

```