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In [1]:

```
x = 1
```

In [2]:

```
x
```

Out[2]:

```
1
```

In [3]:

```
print(x)
```

```
1
```

In [4]:

```
print('x = ', x)
```

```
x =  1
```

In [5]:

```
x = 9.3
x
```

Out[5]:

```
9.3
```

In [6]:

```
y = 4
```

In [7]:

```
x, y, z = 1, 2, 3
x, y, z
```

Out[7]:

```
(1, 2, 3)
```

In [8]:

```
print(x, y, z)
```

```
1 2 3
```

In [9]:

```
x = 1 + 3 - 2
y = ( 6.5 + 2) / 2
print(x, y)
```

```
2 4.25
```

In [10]:

```
3 / 2
```

Out[10]:

```
1.5
```

In [11]:

```
# Potencia
3 ** 2
```

Out[11]:

```
9
```

In [12]:

```
# Modulo - Resto da divisao inteira
10 % 3
```

Out[12]:

```
1
```

In [13]:

```
10 / 3
```

Out[13]:

```
3.3333333333333335
```

In [14]:

```
type(x)
```

Out[14]:

```
int
```

In [15]:

```
type(y)
```

Out[15]:

```
float
```

In [16]:

```
# String
a = 'UEPB'
b = 'UEPB-DC'
a, b
```

Out[16]:

```
('UEPB', 'UEPB-DC')
```

In [17]:

```
print(a, b)
```

```
UEPB UEPB-DC
```

In [18]:

```
c = a + ' ' + b
c
```

Out[18]:

```
'UEPB UEPB-DC'
```

In [19]:

```
type(c)
```

Out[19]:

```
str
```

In [20]:

```
d = str(x) + ' - ' + c
d
```

Out[20]:

```
'2 - UEPB UEPB-DC'
```

In [21]:

```
x = 4
x
```

Out[21]:

```
4
```

In [22]:

```
type(x)
```

Out[22]:

```
int
```

In [23]:

```
w = float(x)
w
```

Out[23]:

```
4.0
```

In [24]:

```
type(w)
```

Out[24]:

```
float
```

In [25]:

```
w = 4.5
w
```

Out[25]:

```
4.5
```

In [26]:

```
int(w)
```

Out[26]:

```
4
```

Função

In [27]:

```
# Valor absoluto
k = abs(-8)
k
```

Out[27]:

```
8
```

In [28]:

```
# Arredondamento
k = pi = 3.141592653589793
k
```

Out[28]:

```
3.141592653589793
```

In [29]:

```
round(k, 2)
```

Out[29]:

```
3.14
```

In [30]:

```
round(k, 4)
```

Out[30]:

```
3.1416
```

In [31]:

```
# potencia
pow(4, 2)
```

Out[31]:

```
16
```

Variaveis

In [32]:

```
nome, sobrenome, idade = 'João', 'Emanuel', 21
print(nome, sobrenome, idade)
```

```
João Emanuel 21
```

In [33]:

```
x = 12.34456
print(x)
```

```
12.34456
```

In [34]:

```
print('{:.2f}'.format(x))
```

```
12.34
```

In [35]:

```
print('{:.5f}'.format(pi))
```

```
3.14159
```

In [36]:

```
X_1 = 1
```

In [38]:

```
x_2 = 2
x_2
```

Out[38]:

```
2
```

In [39]:

```
x - 2 = 4
```

```
  File "<ipython-input-39-3d9b2cdafef8>", line 1
    x - 2 = 4
    ^
SyntaxError: cannot assign to operator
```

In [40]:

```
# Palavras reservadas
data_a = '06/agosto/2020'
data_a
```

Out[40]:

```
'06/agosto/2020'
```

Strings

In [41]:

```
print('UEPB CCT DC')
```

```
UEPB CCT DC
```

In [42]:

```
print('UEPB \nCCT \nDC')
```

```
UEPB
CCT
DC
```

In [44]:

```
v = 'UEPB CCT DC'
v
```

Out[44]:

```
'UEPB CCT DC'
```

In [45]:

```
v[0]
```

Out[45]:

```
'U'
```

In [48]:

```
v[:]
```

Out[48]:

```
'UEPB CCT DC'
```

In [50]:

```
v[1:]
```

Out[50]:

```
'EPB CCT DC'
```

In [51]:

```
v[::-1]
```

Out[51]:

```
'CD TCC BPEU'
```

In [52]:

```
len(v)
```

Out[52]:

```
11
```

In [53]:

```
v[10]
```

Out[53]:

```
'C'
```

In [54]:

```
v[len(v) - 1]
```

Out[54]:

```
'C'
```

In [55]:

```
v[0] = 'P'
```

```
---------------------------------------------------------------------
-------
TypeError                                 Traceback (most recent cal
l last)
<ipython-input-55-a2b95ed83d0d> in <module>
----> 1 v[0] = 'P'

TypeError: 'str' object does not support item assignment
```

In [56]:

```
w = v.lower()
w
```

Out[56]:

```
'uepb cct dc'
```

In [57]:

```
w.upper()
```

Out[57]:

```
'UEPB CCT DC'
```

In [58]:

```
universidade, centro, departamento = w.split(' ')
print(universidade, centro, departamento)
```

```
uepb cct dc
```

Função

In [59]:

```
# Função
def imprime(x):
    print(x)
    # return True
x = 10
imprime(x)
```

```
10
```

Exercicio

Criar uma função que leia a string e converta para a saída especificada abaixo:

Entrada

```
created_at = 'Wed Oct 10 20:19:24 +0000 2018'

created_at
```

Saida

```
Data: 10 de Oct de 2018 Horario: 20 hora(s), 19 minuto(s) e 24 segundo(s)
```

In [60]:

```
created_at = 'Wed Oct 10 20:19:24 +0000 2018'
created_at
```

Out[60]:

```
'Wed Oct 10 20:19:24 +0000 2018'
```

In [63]:

```
def formatDate(date):
    _, mes, dia, horario, _, ano = date.split(' ')
    horas, minutos, segundos = horario.split(':')

    hoursFormatted = 'Horario: ' + horas + ' hora(s), ' + minutos + ' minuto(s)
 e ' + segundos + ' segundo(s)'
    dateFormatted = dia + ' de ' + mes + ' de ' + ano
    return dateFormatted + ' ' + hoursFormatted
```

In [64]:

```
formatDate('Wed Oct 10 20:19:24 +0000 2018')
```

Out[64]:

```
'10 de Oct de 2018 Horario: 20 hora(s), 19 minuto(s) e 24 segundo
(s)'
```

In [ ]:

```

```