

20200525

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```
[1]: # Operadores matematicos  
5 + 4 / 8 * 2
```

[1]: 6.0

```
[2]: 3 ** (3 + 2) - 8
```

[2]: 235

```
[3]: # módulo  
9 % 3
```

[3]: 0

```
[4]: # división  
21 / 5
```

[4]: 4.2

```
[5]: # devolver la parte entera la división  
21 // 5
```

[5]: 4

0.1 Operadores de asignación

```
[6]: x = 56  
# x = x + 4 -> 60  
x += 4  
x
```

[6]: 60

```
[7]: x = 3  
# x = x ** 2 -> 9  
x **= 2  
x
```

[7]: 9

```
[8]: x = 67
      y = 3
      # y = y + x
      y += x
      y
```

[8]: 70

```
[9]: x = -4
      y = 60
      z = 0
      z += x
      print(z)
      z += y
      print(z)
```

-4
56

```
[10]: texto_1 = "Hola"
      texto_1 += " mundo"
      texto_1
```

[10]: 'Hola mundo'

0.2 Operadores de Comparación

```
[11]: 5 == 6
```

[11]: False

```
[12]: 6 < 6
```

[12]: False

```
[13]: 90 >= 90
```

[13]: True

```
[14]: 70 != 70
```

[14]: False

```
[15]: 90 > 35
```

[15]: True

```
[16]: 90 <> 90
```

```
File "<ipython-input-16-c6ca58933099>", line 1
90 <> 90
    ^
SyntaxError: invalid syntax
```

0.3 Operadores lógicos

```
[17]: # and
6 > 5 and 5 < 9
```

[17]: True

```
[18]: # and
7 < 5 and 7 > 2
```

[18]: False

```
[19]: # or
6 > 5 or 5 < 9
```

[19]: True

```
[20]: # or
7 < 5 or 7 > 2
```

[20]: True

```
[21]: # not
not(6 > 5 and 5 < 9)
```

[21]: False

```
[22]: # not
not(7 < 5 and 7 > 2)
```

[22]: True

0.4 Operadores de Identidad

```
[23]: x = 5  
      y = 5  
      x is y
```

[23]: True

```
[24]: x = 5  
      y = 6  
      x is y
```

[24]: False

```
[25]: x = "ana"  
      y = "ana"  
      x is y
```

[25]: True

```
[26]: x = 5  
      y = x  
      x is y
```

[26]: True

```
[27]: y = 6  
      x is y
```

[27]: False

```
[28]: lista_1 = ["manzana", "banano"]  
      lista_2 = ["manzana", "banano"]  
      lista_3 = lista_1
```

```
[29]: lista_1 is lista_2
```

[29]: False

```
[30]: lista_1 is lista_3
```

[30]: True

```
[31]: lista_1 == lista_2
```

[31]: True

```
[32]: lista_1 is not lista_2
```

```
[32]: True
```

0.5 Operadores de Membresia

```
[33]: lista_1 = ["fresa", "manzana", "mandarina", 2]
```

```
[34]: "mango" in lista_1
```

```
[34]: False
```

```
[35]: "fres" in lista_1
```

```
[35]: False
```

```
[36]: "fresa" in lista_1
```

```
[36]: True
```

```
[37]: lista_1.append("naranja")
```

```
[38]: lista_1
```

```
[38]: ['fresa', 'manzana', 'mandarina', 2, 'naranja']
```

```
[39]: 2 not in lista_1
```

```
[39]: False
```

```
[40]: 2 in lista_1
```

```
[40]: True
```

```
[41]: fruta = "manzana"  
      "man" in fruta
```

```
[41]: True
```

```
[42]: for x in lista_1:  
      if "man" in str(x):  
          print(f"Lo encontré: {x}")
```

```
Lo encontré: manzana  
Lo encontré: mandarina
```

```
[43]: x = range(1000000)
```

```
[44]: 7850000 in list(x)
```

[44]: False

[45]: 785000 in list(x)

[45]: True

Debemos ver todos los vídeos de la sección 8 (del 45 al 55) del curso que estamos siguiendo