Condicionales

Expresiones Booleanas

In [3]:
```
print('1 == 1 : {}'.format(1 == 1))
print('1 == 2 : {}'.format(1 == 2))
```

```
1 == 1 : True
1 == 2 : False
```

In [4]:
```
p = 1
q = 2
print('p == q : {}'.format(p == q))
print('p != q : {}'.format(p != q))
print('p > q : {}'.format(p > q))
print('p < q : {}'.format(p < q))
print('p >= q : {}'.format(p >= q))
print('p <= q : {}'.format(p <= q))
print('p is q : {}'.format(p is q))
print('p is not q : {}'.format(p is not q))
```

```
p != q : True
p > q : False
p < q : True
p >= q : False
p <= q : True
p is q : False
p is not q : True
```

Operadores Lógicos

In [10]:
```
x = 1
y = 3
z = x > 3 and y > x
print('x > 3 and y > x :', z)
z = x > 3 or y > x
print('x > 3 or y > x :', z)
z = not (x > 3 or y > x)
print('not (x > 3 or y > x) :', z)
```

```
x > 3 and y > x : False
x > 3 or y > x : True
not (x > 3 or y > x) : False
```

In [11]:
```
17 and True
```

Out[11]:
```
True
```

IF

In [14]:
```
x = 5

if x > 1:
    print(x, 'es mayor a', 1)
```

```
5 es mayor a 1
```

In [21]:
```
x = 5

if x % 2 == 0:
    print(x, 'es par')
else:
    print(x, 'es impar')
```

```
5 es impar
```

In [24]:
```
x = 10

if x < 1000:
    pass
```

In [28]:
```
x = 12
y = 11

if x > y:
    print(x, 'es mayor a', y)
elif x < y:
    print(x, 'es menor a', y)
else:
    print(x, 'es igual a', y)
```

```
12 es mayor a 11
```

In [31]:
```
x = 10
```

```
y = 11

if x > y:
    print(x, 'es mayor a', y)
else:
    if x < y:
        print(x, 'es menor a', y)
    else:
        print(x, 'es igual a', y)
```

```
10 es menor a 11
```

La evaluación de circuito corto,

In [45]:
```
x = 6
y = 2
x >= 2 and (x/y) > 2
```

Out[45]:
```
True
```

In [46]:
```
x = 1
y = 0
x >= 2 and (x/y) > 2
```

Out[46]:
```
False
```

In [47]:
```
x = 6
y = 0
x >= 2 and (x/y) > 2
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-47-43a82c4c87c1> in <module>
      1 x = 6
      2 y = 0
----> 3 x >= 2 and (x/y) > 2

ZeroDivisionError: division by zero
```

In [48]:
```
x = 6
y = 0
x >= 2 and y != 0 and (x/y) > 2
```

Out[48]:
```
False
```

try and except

In [42]:
```
edad = input('Ingrese su edad:\n> ')
horas = int(edad) * 365 * 24
print('usted tiene aproximadamente {} horas de vida'.format(horas))
```

```
Ingrese su edad:
> 30
usted tiene aproximadamente 262800 horas de vida
```

In [43]:
```
try:
    edad = input('Ingrese su edad:\n> ')
    horas = int(edad) * 365 * 24
    print('usted tiene aproximadamente {} horas de vida'.format(horas))
except:
    print('ingrese un valor numérico')
```

```
Ingrese su edad:
> asd
ingrese un valor numérico
```

In [ ]:
```

```