

Introduccion

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1 Introducción a Python

1.1 Operadores

1.1.1 Operadores matematicos

Operador	Tipo de operador
+	Suma
-	Resta
*	Multiplicación
/	Divison
**	Potencia
%	Modulo

```
[46]: variable = 4 + 4
```

```
[50]: 4 - 2
```

```
[50]: 2
```

```
[51]: 4 * 4
```

```
[51]: 16
```

```
[53]: 5 / 2.5
```

```
[53]: 2.0
```

```
[54]: 4**2
```

```
[54]: 16
```

```
[56]: 21 % 2
```

```
[56]: 1
```

1.1.2 Operadores de comparación

```
[57]: 5 > 1
```

```
[57]: True
```

```
[58]: 5 < 1
```

```
[58]: False
```

```
[59]: 5 >= 5
```

```
[59]: True
```

```
[61]: 6 <= 5
```

```
[61]: False
```

```
[63]: 5 != 8
```

```
[63]: True
```

```
[67]: 8 == 8
```

```
[67]: True
```

1.1.3 Operadores lógicos

```
[69]: True and True
```

```
[69]: True
```

```
[71]: (5 > 1) and (7 <= 5)
```

```
[71]: False
```

```
[73]: not((5 > 1) or (7 <= 5))
```

```
[73]: False
```

1.2 Strings

Escape character	Print as
\'	Single quote
\"	Double quote
\t	tab
\n	newline
\\	backslash

```
[97]: saludo4 = "Hello world \\"
```

```
[85]: saludo = "Hello world\\"  
print(saludo)
```

Hello world"

```
[94]: saludo2 = "hello world\nAdios"  
print(saludo2)
```

hello world
Adios

```
[95]: saludo3 = "Hello world \t Resto de palabra"  
print(saludo3)
```

Hello world Resto de palabra
Operador in "hello" in "hello world"

```
[99]: "Hello" in saludo3
```

[99]: True

```
[106]: saludo3 = "Hello world \t Resto de palabra"  
print(saludo3)  
  
saludo3 = saludo3.lower()  
print(saludo3)  
"hello" in saludo3
```

hello world resto de palabra

[106]: True

```
[110]: len(saludo3)
```

[110]: 30

```
[112]: print(saludo3.upper())
```

HELLO WORLD RESTO DE PALABRA

```
[116]: saludo3.islower()
```

[116]: False

```
[121]: variable1 = "Hello"  
', '.join(["cat", "dog"])
```

[121]: 'cat,hellodog'

```
[122]: "Mi nombre es Isaias".split()
```

```
[122]: ['Mi', 'nombre', 'es', 'Isaias']
```

1.3 Tipos de valores

```
[123]: hola = None  
print(hola)
```

None

```
[124]: 16
```

```
[124]: 16
```

```
[125]: "Hola"
```

```
[125]: 'Hola'
```

1.4 Control de flujo

1.4.1 Condicionales if

```
[129]: variable1 = 0  
if (variable1 > 1):  
    print("Este numero es mayor que 1")  
else:  
    print("Este numero no es mayor que 1")
```

Este numero no es mayor que 1

```
[132]: variable2 = "gato"  
if (variable2 == "hola"):  
    print("Variable es igual a hola")  
elif (variable2 == "adios"):  
    print("Variable es igual a adios")  
else:  
    print("Ninguna de las anteriores")
```

Ninguna de las anteriores

1.4.2 Operación condicional ternario

value = <true-expr> if <condition> else <>false-expr>

```
[136]: variable3 = 13  
hola = "Hola" if (variable3==13) else 13  
hola
```

```
[136]: 'Hola'
```

```
[42]: print("hello world")
```

```
hello world
```