

» In [2]: "Hello World"

Out[2]: 'Hello World'

» In [3]: 5 + 7

Out[3]: 12

» In [4]: 10*5

Out[4]: 50

» In [5]: 3-9

Out[5]: -6

» In [7]: 4**3

Out[7]: 64

» In [8]: 50/5

Out[8]: 10.0

» In [9]: 50/4

Out[9]: 12.5

» In [10]: 50//4

Out[10]: 12

» In [11]: type(5)

Out[11]: int

» In [12]: 5.6

Out[12]: 5.6

» In [13]: type(5.6)

Out[13]: float

» In [14]: "Hello World"

Out[14]: 'Hello World'

» In [19]: my_variable = "Python is great for data science"
print(my_variable)

Python is great for data science

» In [20]: my_variable

Out[20]: 'Python is great for data science'

» In [22]: my_variable.upper()

Out[22]: 'PYTHON IS GREAT FOR DATA SCIENCE'

» In [23]: my_variable.title()

Out[23]: 'Python Is Great For Data Science'

► In [24]: `True`

Out[24]: `True`

► In [25]: `False`

Out[25]: `False`

► In [26]: `True + True`

Out[26]: `2`

► In [27]: `False + False`

Out[27]: `0`

► In [31]: `my_list = [1, 2, 3, 4, 5]`

► In [29]: `[]`

Out[29]: `[]`

► In [30]: `[1, "A"]`

Out[30]: `[1, 'A']`

► In [32]: `my_list[0]`

Out[32]: `1`

► In [34]: `my_list[1:4]`

Out[34]: `[2, 3, 4]`

► In [35]: `{2, 4, 5}`

Out[35]: `{2, 4, 5}`

► In [36]: `list("ABC")`

Out[36]: `['A', 'B', 'C']`

► In [38]: `set([1, 3, 4, 4])`

Out[38]: `{1, 3, 4}`

► In [41]: `type((2, 4, 6))`

Out[41]: `tuple`

► In [43]: `{"age": [30, 34, 29], "gender": ["female", "male", "female"]}`

Out[43]: `{'age': [30, 34, 29], 'gender': ['female', 'male', 'female']}`

► In [44]: `for i in [1, 2, 3, 4]:
 print(i**2)`

`1
4
9
16`

```
► In [46]: i = 1  
while i<5:  
    print(i**2)  
    i=i+1
```

```
1  
4  
9  
16
```