

```
In [1]: a = 5
        b = 8

In [2]: if a > 5 and b < 10:
        print("")

In [3]: not (False)

Out[3]: True

In [4]: not (True)

Out[4]: False

In [5]: a = 7

In [6]: if a > 7:
        print("a")

In [7]: if not a>7:
        print("a")

a

In [8]: i = 1

In [9]: i = i + 1
        i += 1

In [11]: i = i - 1
         i -= 1

In [ ]: i = i * 2
        i *= 2

In [10]: i

Out[10]: 2

In [12]: user_input = input()

567

In [13]: print(user_input)

567

In [14]: type(user_input)

Out[14]: str

In [ ]: user_input

In [15]: number = int(user_input)

In [16]: type(number)

Out[16]: int

In [17]: number + 5

Out[17]: 572

In [18]: user_input = input()

fjsd;fjwi

In [19]: number = int(user_input)

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ValueError                                Traceback (most recent call last)
<ipython-input-19-79c9740bb2eb> in <module>
----> 1 number = int(user_input)

ValueError: invalid literal for int() with base 10: 'fjsd;fjwi'

In [20]: number = 2.78

In [21]: str_number = str(number)

In [22]: type(str_number)

Out[22]: str

In [23]: str_number

Out[23]: '2.78'

In [24]: name = "James Bond"

In [25]: list(name)

Out[25]: ['J', 'a', 'm', 'e', 's', ' ', 'B', 'o', 'n', 'd']

In [28]: my_list = [1,2,4,5,"hello", True]
        my_list

Out[28]: [1, 2, 4, 5, 'hello', True]

In [27]: str(my_list)

Out[27]: "[1, 2, 4, 5, 'hello', True]"

In [ ]: int()
        str()
        list()

        float()

        bool()

In [29]: user_input = input()

2.88

In [30]: number = int(user_input)

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ValueError                                Traceback (most recent call last)
<ipython-input-30-79c9740bb2eb> in <module>
----> 1 number = int(user_input)

ValueError: invalid literal for int() with base 10: '2.88'

In [31]: number = float(user_input)

In [32]: number

Out[32]: 2.88

In [33]: type(number)

Out[33]: float

In [42]: number = 4

In [43]: bool(number)

Out[43]: True

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

In [ ]:

In [52]: 10 in range(2,10)

Out[52]: False

In [47]:

In [50]: next(m)

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TypeError                                Traceback (most recent call last)
<ipython-input-50-8efa10874b95> in <module>
----> 1 next(m)

TypeError: 'range' object is not an iterator

In [53]: for i in range(2,10):
        print(i)

2
3
4
5
6
7
8
9

In [54]: name = "My name"

In [56]: for i in range(0,len(name)):
        print(name[i])

M
Y

n
a
m
e

In [55]: for char in name:
        print(char)

M
Y

n
a
m
e

In [ ]:
```