Literals

Literals = basic data values for variables.

Types in Python:

- · Numeric literals
- · String literals
- · Boolean literals
- · Special literals

1. Numeric literals

```
In [1]: # Integer Literals
    a = 0b1010  # Binary
    b = 100  # Decimal
    c = 0o310  # Octal
    d = 0x12c  # Hex

# Float Literals
    f1 = 10.5
    f2 = 1.5e2
    f3 = 1.5e-3

# Complex Literal
    x = 2 + 3.14j

    print(a, b, c, d)
    print(f1, f2, f3)

print(x, x.real, x.imag)
```

10 100 200 300 10.5 150.0 0.0015 (2+3.14j) 2.0 3.14

2. String literals

```
In [7]: | string = 'This is Python'
        strings = "This is Python"
        char = "C" # there is no such data type in python
        multiline_str = """This is a multiline string with more than one line code."""
        unicode = u"\U0001f600\U0001F606\U0001F923"
        raw_str = r"raw \t string"
        print(string)
        print(strings)
        print(char)
        print(multiline_str)
        print(unicode)
        print(raw_str)
        This is Python
        This is Python
        This is a multiline string with more than one line code.
        ≅ ₹
        raw \t string
```

3. Boolean literals

```
In [8]: a = True + 4  # True == 1
b = False + 10 # False == 0

print("a:", a)
print("b:", b)
a: 5
b: 10
```

4. Special literals

```
In [15]: q = None
In [16]: q
In [27]: A = None
          print(A)
          None
 In [7]: a = u"\setminus U0001F40E"
          print(a)
 In [8]: | b =u"\U0001F622"
          print(b)
 In [9]: c = u"\setminus 00001f433"
          print(c)
In [11]: print(k)
          None
In [10]: b
          NameError
                                                       Traceback (most recent call last)
          Cell In[10], line 1
          ----> 1 b
          NameError: name 'b' is not defined
In [10]: a
Out[10]: 5
 In [9]: s
          NameError
                                                       Traceback (most recent call last)
          Cell In[9], line 1
          ----> 1 s
          NameError: name 's' is not defined
```

In [12]:	
In []:	
In []:	