

```
In [3]:
```

```
import keyword
```

```
keyword.kwlist
```

```
['False',  
'None',  
'True',  
'and',  
'as',  
'assert',  
'async',  
'await',  
'break',  
'class',  
'continue',  
'def',  
'del',  
'elif',  
'else',  
'except',  
'finally',  
'for',  
'from',  
'global',  
'if',  
'import',  
'in',  
'is',  
'lambda',  
'nonlocal',  
'not',  
'or',  
'pass',  
'raise',  
'return',  
'try',  
'while',  
'with',  
'yield']
```

```
In [ ]:
```

```
import pandas as pd
```

```
import numpy as np
```

data type

int --> variabel name = value

```
In [4]:
```

```
a = 5
```

```
type(a)
```

```
int
```

```
In [5]:
```

```
1 a = 6
```

```
File "<ipython-input-5-2788e874490d>", line 1
```

```
1 a = 6
```

```
^
```

```
SyntaxError: invalid syntax
```

```
In [6]:
```

```
if = 7
```

```
File "<ipython-input-6-9b6cbf7468bb>", line 1
```

```
if = 7
```

```
^
```

```
SyntaxError: invalid syntax
```

```
In [7]:
```

```
a1 = 1 1 1 1
```

```
a1
```


6

```
In [20]:  
0o111
```

73

```
In [21]:  
0o(73)
```

'0o111'

```
In [22]:  
0o76
```

62

```
In [23]:  
0o9
```

```
File "<ipython-input-23-a9d2c1573cd0>", line 1  
  0o9  
    ^  
SyntaxError: invalid token
```

```
In [24]:  
0o8
```

```
File "<ipython-input-24-c8e060b98481>", line 1  
  0o8  
    ^  
SyntaxError: invalid token
```

```
In [25]:  
0o7
```

7

```
In [27]:  
0o9
```

```
File "<ipython-input-27-a9d2c1573cd0>", line 1  
  0o9  
    ^  
SyntaxError: invalid token
```

```
In [28]:  
#FLOAT DATATYPE
```

```
petrol = 110.89  
petrol
```

110.89

```
In [29]:  
type(petrol)
```

float

```
In [30]:  
salary = 27890.45  
salary
```

27890.45

```
In [31]:  
petrol_ = 0b111.01  
  
File "<ipython-input-31-8aab7781cf03>", line 1  
petrol_ = 0b111.01  
          ^  
SyntaxError: invalid syntax
```

```
In [32]:  
salary_ = 0o34567.78  
salary_  
  
File "<ipython-input-32-ca2311cd01e1>", line 1  
salary_ = 0o34567.78  
          ^  
SyntaxError: invalid syntax
```

```
In [33]:  
fl = 5e0  
fl  
  
5.0
```

```
In [34]:  
type(fl)  
  
float
```

```
In [35]:  
5.3e1  
  
53.0
```

```
In [36]:  
5.3e2  
  
530.0
```

```
In [37]:  
5.3e3  
  
5300.0
```

```
In [44]:  
5.3E2  
  
530.0
```

```
In [45]:  
b = true  
  
-----  
NameError                                Traceback (most recent call last)  
<ipython-input-45-f11027c2d8d0> in <module>  
----> 1 b = true  
  
NameError: name 'true' is not defined
```

```
In [48]:  
b = True  
print(b)  
print(type(b))  
  
True  
<class 'bool'>
```


> + 10j

AttributeError: 'complex' object has no attribute 'imaginary'

In [73]:

c.imag

20.0

In [74]:

c

(10+20j)

In [75]:

print(c.real)

10.0

In [76]:

print(c.imag)

20.0

In [77]:

c_1 = 5 + 10j
c_2 = 15 + 20j

In [78]:

c_1 + c_2

(20+30j)

In [79]:

c_1 - c_2

(-10-10j)

In [82]:

c_1 * c_2

(-125+250j)

In [83]:

real
imaginary
j = squar root of -1

File "<ipython-input-83-37ec76b740b3>", **line 3**

j = squar root of -1
 ^

SyntaxError: invalid syntax

In [84]:

string

In [88]:

s = 'welcom to nit'
s
type(s)

str

In [89]:

s1 = "welcom to nit"
s1
len(s1)

```
type(s1)
```

```
str
```

```
In [91]:
```

```
s2 = "welcom to nit"  
s2
```

```
'welcom to nit'
```

```
In [95]:
```

```
s3 = "welcom  
to nit  
we are hear to learn ds ,ai "
```

```
In [96]:
```

```
s3
```

```
'welcom \n      to nit\n      we are hear to learn ds ,ai '
```

```
In [97]:
```

```
a = 1 + 2j  
b = 3 + 4j  
a + b
```

```
(4+6j)
```

```
In [ ]:
```