

8th april 25 python variable

```
In [2]: v1 = 5.5  
v1
```

```
Out[2]: 5.5
```

```
In [4]: type(v1)  
float
```

```
Out[4]: float
```

```
In [6]: v_ = 9  
v_
```

```
Out[6]: 9
```

```
In [8]: if = 67
```

```
Cell In[8], line 1  
    if = 67  
      ^  
SyntaxError: invalid syntax
```

```
In [10]: import keyword  
keyword.kwlist
```

```
Out[10]: ['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 [12]: len(keyword.kwlist)
```

```
Out[12]: 35
```

```
In [16]: while = 9
```

```
Cell In[16], line 1
    while = 9
      ^
SyntaxError: invalid syntax
```

```
In [20]: nit = 8
        NIT
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[20], line 2
      1 nit = 8
----> 2 NIT
NameError: name 'NIT' is not defined
```

```
In [22]: Nit = 8
```

```
nit
```

```
Out[22]: 8
```

```
In [ ]: RULES TO IDENTIFY PYTHON VARIABLES
        -case sensitive
        -cannot start with digit
        -special symbol is not allowed
        -only_ is allowed
        -keywords or reserve can define as variable
```

```
In [ ]: VARIABLE NAME = VALUE VALUES ALSO CALLED
        data types
        -int
        -float
        -string
        -complex
        -boolen
```

```
In [30]: i = 7
        i
```

```
Out[30]: 7
```

```
In [32]: type(i)
        i
```

```
Out[32]: 7
```

```
In [44]: a, b = 10, 20
```

```
In [48]: c = a+b
        d = a-b
        c
        d
```

```
Out[48]: -10
```

```
In [50]: c = a+b
        d = a-b
        e = a * b
        f = a / b

        print(c)
        print(d)
        print(e)
        print(f)
```

```
30
```

```
-10
```

```
200
```

```
0.5
```

10th may 25

```
In [ ]:
```

python data types

```
In [4]: i = 5  
        type(i)
```

Out[4]: int

```
In [6]: f = 110.4  
        f
```

Out[6]: 110.4

```
In [10]: type(f)
```

Out[10]: float

```
In [13]: c = 10 + 20j  
        c
```

Out[13]: (10+20j)

```
In [15]: type(c)
```

Out[15]: complex

```
In [17]: c.real
```

Out[17]: 10.0

```
In [19]: c.imag
```

Out[19]: 20.0

```
In [25]: d = 5 + 3j  
        d
```

Out[25]: (5+3j)

```
In [27]: print(c)  
        print(d)
```

(10+20j)
(5+3j)

```
In [29]: c + d
```

Out[29]: (15+23j)

```
In [37]: True
```

Out[37]: True

```
In [39]: False
```

Out[39]: False

```
In [41]: True + False
```

Out[41]: 1

In [43]: `True - False`

Out[43]: 1

In [45]: `False * False`

Out[45]: 0

In [49]: `b = True`
`b1 = False`

In [53]: `print(b+b1)`
`print(b-b1)`
`print(b*b1)`
`print(b1/b)`
`print(b1//b)`

1
1
0
0.0
0

In [57]: `s = 'nit'`
`s`

Out[57]: 'nit'

In [59]: `s1 = 'nit'`
`s1`

Out[59]: 'nit'

In [61]: `s3 = 'nit'`
`s3`

Out[61]: 'nit'

In []:

In []:

In []:

In [33]: `z = '4.4'`
`type(z)`

Out[33]: str

In []:

In []:

In []:

In []:

In []:

In []:

In []:

In []: