

# 18th - 19th

```
In [1]: v = 5  
v
```

```
Out[1]: 5
```

```
In [2]: id(v)
```

```
Out[2]: 140734762003000
```

```
In [3]: 5=v
```

```
Cell In[3], line 1  
    5=v  
    ^  
SyntaxError: cannot assign to literal here. Maybe you meant '==' instead of '='?
```

```
In [4]: 1v = 9
```

```
Cell In[4], line 1  
    1v = 9  
    ^  
SyntaxError: invalid decimal literal
```

```
In [6]: 1v=9
```

```
Cell In[6], line 1  
    1v=9  
    ^  
SyntaxError: invalid decimal literal
```

```
In [8]: v1 = 9  
v1
```

```
Out[8]: 9
```

```
In [9]: a2 = 10  
A2
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[9], line 2  
      1 a2 = 10  
----> 2 A2  
NameError: name 'A2' is not defined
```

```
In [10]: v@ = 7
```

```
Cell In[10], line 1  
    v@ = 7  
    ^  
SyntaxError: invalid syntax
```

```
In [11]: v* = 7
```

Cell In[11], line 1

```
v* = 7
```

^

SyntaxError: invalid syntax

In [14]: v\_ = 10

v\_

Out[14]: 10

In [15]: if = 78

Cell In[15], line 1

```
if = 78
```

^

SyntaxError: invalid syntax

In [16]: else = 50

Cell In[16], line 1

```
else = 50
```

^

SyntaxError: invalid syntax

In [17]: for = 90

Cell In[17], line 1

```
for = 90
```

^

SyntaxError: invalid syntax

In [18]: import keyword  
keyword.kwlist

```
Out[18]: ['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 [19]: len(keyword.kwlist)
```

```
Out[19]: 35
```

```
In [20]: else = 6
         else    # else is a Reserved Keyword in Python. we cannot use keywords as var
```

```
Cell In[20], line 1
      else = 6
      ^
SyntaxError: invalid syntax
```

```
In [21]: Else = 6
         Else
```

```
Out[21]: 6
```

```
In [23]: for =20
         fpr
```

```
Cell In[23], line 1
    for =20
      ^
SyntaxError: invalid syntax
```

```
In [24]: For = 20
        For
```

```
Out[24]: 20
```

```
In [29]: prefix = 'py'
        prefix = 'thon'
        prefix
```

```
Out[29]: 'thon'
```

```
In [30]: 'py' + prefix
```

```
Out[30]: 'python'
```

## 19th

```
In [31]: i = 32
        i
```

```
Out[31]: 32
```

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

```
Out[32]: int
```

```
In [33]: print(type(int))
```

```
<class 'type'>
```

```
In [34]: f = 20.4
        f
```

```
Out[34]: 20.4
```

```
In [35]: type(f)
```

```
Out[35]: float
```

```
In [36]: f1 = 1e0
        f1
```

```
Out[36]: 1.0
```

```
In [37]: f2 = 1e1
        f2
```

```
Out[37]: 10.0
```

```
In [38]: f3 = 1e2  
f3
```

Out[38]: 100.0

```
In [39]: f4 = 1e3  
f4
```

Out[39]: 1000.0

```
In [40]: a = 10  
b = 20
```

```
In [41]: a+b  
a-b  
a*b  
a/b
```

Out[41]: 0.5

```
In [42]: print(a+b)  
print(a-b)  
print(a*b)  
print(a/b)
```

30  
-10  
200  
0.5

```
In [43]: n1 = 10  
n2 = 20  
add = n1+n2  
print('the addition of two number',n1,'and',n2,'is =',add)
```

the addition of two number 10 and 20 is = 30

```
In [44]: n1 = 10  
n2 = 20  
add = n1+n2  
print('the addition of {} and {} is ={}'.format(n1,n2,add))
```

the addition of 10 and 20 is =30

```
In [45]: a = 6.7  
b = 9.0  
add = a+b  
print('the addition of {} and {} is ={}'.format(a,b,add))
```

the addition of 6.7 and 9.0 is =15.7

```
In [46]: c = 1+2j  
c
```

Out[46]: (1+2j)

```
In [47]: type(c)
```

Out[47]: complex

```
In [48]: c.real
```

```
Out[48]: 1.0
```

```
In [49]: c.imag
```

```
Out[49]: 2.0
```

```
In [51]: c = 5+10j
d = 10+20j
print(c+d)
print(c-d)
```

```
(15+30j)
```

```
(-5-10j)
```

```
In [52]: def team():
        print('hello')    # Python Automatically takes 4 spaces by default when we de
```

```
In [53]: b = true
        b
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[53], line 1
----> 1 b = true
      2 b

NameError: name 'true' is not defined
```

```
In [54]: import keyword
        keyword.kwlist
```

```
Out[54]: ['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 [55]: b = True  
b
```

```
Out[55]: True
```

```
In [56]: b1 = False  
b1
```

```
Out[56]: False
```

```
In [57]: int(True)
```

```
Out[57]: 1
```

```
In [58]: int(False)
```

```
Out[58]: 0
```

```
In [59]: True + True
```

```
Out[59]: 2
```

```
In [60]: True - False
```

```
Out[60]: 1
```

```
In [61]: False - True
```

```
Out[61]: -1
```

```
In [62]: True-True*False+False # python follows Operator precedence here
```

```
Out[62]: 1
```

```
In [ ]:
```