

```
In [3]: v=5 #variable declaration
        v
```

Out[3]: 5

```
In [4]: id(v) #address of the memory location
```

Out[4]: 140727510116920

```
In [5]: 5=v # invalid
```

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

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

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

```
In [7]: v1=9
        v1
```

Out[7]: 9

```
In [8]: v2=10
        V2
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[8], line 2
      1 v2=10
----> 2 V2

NameError: name 'V2' is not defined
```

```
In [9]: a2
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[9], line 1
----> 1 a2

NameError: name 'a2' is not defined
```

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

Out[10]: 10

```
In [11]: v@=78
v
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[11], line 1
----> 1 v@=78
      2 v

TypeError: unsupported operand type(s) for @=: 'int' and 'int'
```

```
In [12]: v*=22
v*
```

```
Cell In[12], line 2
    v*
      ^
SyntaxError: invalid syntax
```

```
In [13]: v_=10
v_
```

```
Out[13]: 10
```

```
In [14]: if=78
```

```
Cell In[14], line 1
    if=78
      ^
SyntaxError: invalid syntax
```

```
In [15]: else=9
```

```
Cell In[15], line 1
    else=9
      ^
SyntaxError: invalid syntax
```

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

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

```
In [17]: import keyword
keyword.kwlist
```

```
Out[17]: ['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
```

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

```
In [22]: ELSE=6
        ELSE
```

```
Out[22]: 6
```

```
In [23]: for=78
        for
```

Cell In[23], line 1

for=78

^

SyntaxError: invalid syntax

```
In [24]: FOR=78
FOR
```

Out[24]: 78

```
In [25]: prefix='py'
prefix='thon'
prefix
```

Out[25]: 'thon'

```
In [26]: 'py'+prefix
```

Out[26]: 'python'

```
In [27]: continue=1
continue
```

Cell In[27], line 1

continue=1

^

SyntaxError: invalid syntax

```
In [28]: CONTINUE=1
CONTINUE
```

Out[28]: 1

```
In [29]: ASSERT=1
ASSERT
```

Out[29]: 1

```
In [30]: assert=1
assert
```

Cell In[30], line 1

assert=1

^

SyntaxError: invalid syntax

```
In [31]: IMPORT=1
IMPORT
```

Out[31]: 1

```
In [32]: import=1
import
```

Cell In[32], line 1

```
import=1
```

^

SyntaxError: invalid syntax

```
In [33]: spam=1
        spam
```

Out[33]: 1

```
In [34]: SPAM=1
        SPAM
```

Out[34]: 1

```
In [ ]: TASK-1
```

```
In [1]: 2+2
```

Out[1]: 4

```
In [2]: 6-9
```

Out[2]: -3

```
In [3]: 6+5-9*7
```

Out[3]: -52

```
In [4]: (4+5*6)/6
```

Out[4]: 5.666666666666667

```
In [5]: 34/6      #division always returns with float point number
```

Out[5]: 5.666666666666667

```
In [7]: 8/6
```

Out[7]: 1.3333333333333333

```
In [8]: 8//6 #the // operator discards the float
```

Out[8]: 1

```
In [9]: 8%6 #the % operator gives remainder value
```

Out[9]: 2

```
In [12]: 1*6+2 #floored quotient*divisor+remainder
```

Out[12]: 8

```
In [14]: 4**2 #the ** opeator to calculate power
```

```
Out[14]: 16
```

```
In [16]: 8**3 #8 to the power of 3
```

```
Out[16]: 512
```

```
In [18]: length=34  
breadth=2*2  
length*breadth
```

```
Out[18]: 136
```

```
In [19]: n
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[19], line 1  
----> 1 n  
  
NameError: name 'n' is not defined
```

```
In [10]: tax=12.5/100  
price=100.5  
price*tax
```

```
Out[10]: 12.5625
```

```
In [3]: price + _
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[3], line 1  
----> 1 price + _  
  
NameError: name 'price' is not defined
```

```
In [30]: s='firstline\nsecondline'  
s # with out print()
```

```
Out[30]: 'firstline\nsecondline'
```

```
In [31]: s='firstline\nsecondline'  
print(s) #with print() \n produces the new line
```

```
firstline  
secondline
```

```
In [38]: print("c;some\nname") #here\n new line
```

```
c;some  
ame
```

```
In [35]: print(r'c;some\name') #r is used before the first quote for not interpreting \ cha
c;some\name
```

```
In [43]: print(''
hai      hellow[]

welcome to python
ok bi
'')
hai      hellow[]

welcome to python
ok bi
```

```
In [48]: 2*'python+lib' # 2 times python+lib coz 'sigle is at end of quote
```

```
Out[48]: 'python+libpython+lib'
```

```
In [51]: 2*'python'+"lib " # 2 times python followed by lib
```

```
Out[51]: 'pythonpythonlib '
```

```
In [61]: 3*"num"+3*"py"
```

```
Out[61]: 'numnumnumpypypy'
```

```
In [71]: "he llo" #strings r not next to each other
```

```
Out[71]: 'he llo'
```

```
In [73]: "he""llo" #strings are next to each other
```

```
Out[73]: 'hello'
```

```
In [83]: string=('hello' 'world' 'goodmorning')
string
```

```
Out[83]: 'helloworldgoodmorning'
```

```
In [93]: prefix='py' #variable and string can't concanete
prefix 'thon'
```

```
Cell In[93], line 2
    prefix 'thon'
      ^
```

SyntaxError: invalid syntax

```
In [100... prefix='py'
prefix='thon'
prefix+'thon' #takes the previous prefix in output+thon
```

Out[100... 'thonthon'

```
In [101... prefix='py'  
prefix='thon'  
'py'+prefix #py+ takes previous prefix
```

Out[101... 'python'

```
In [103... prefix='thon'  
prefix='py'  
prefix+'thon'
```

Out[103... 'python'

```
In [6]: word='python'  
word[0] #character in position 0
```

Out[6]: 'p'

```
In [110... word[2]
```

Out[110... 't'

```
In [112... word[-1] #here - indicate last value
```

Out[112... 'n'

```
In [7]: print(word[0])  
print(word[1])  
print(word[2])
```

p
y
t

```
In [124... word[2]+word[4]
```

Out[124... 'to'

```
In [125... word[0:4] # characters from 0 included 4 is excluded
```

Out[125... 'pyth'

```
In [126... word[:3]
```

Out[126... 'pyt'

```
In [130... word[-2:2]
```

Out[130... ''

```
In [128... word[-2:-5]
```


Out[128... ' '

In [136... word[0:3]+word[3:6]

Out[136... 'python'

In [140... word[-1]+'oht'

Out[140... 'noht'

In [141... word[:4]+'n'

Out[141... 'pythn'

In [17]: a = "ramya"

In [20]: a[-5:-4]

Out[20]: 'r'

In [45]: add=[1,2,3,4]
add

Out[45]: [1, 2, 3, 4]

In [170... letter='a,b,c,d'
letters

Out[170... 'a,b,c,d'

In [53]: letters[0:2]='e','f'
letters

Out[53]: ['e', 'f', 'B', ',', 'C']

In [172... a=1,2,3
b=4,5,6
x=[a,b]
x

Out[172... [(1, 2, 3), (4, 5, 6)]

In [174... x[1]

Out[174... (4, 5, 6)

In [176... x[1][1]

Out[176... 5

In [2]: a='does\t'
a

Out[2]: "does't"

```
In [4]: a='didn\'t'  
a
```

Out[4]: "didn't"

```
In [42]: word='python'  
word[-3:-2]
```

Out[42]: 'h'

```
In [1]: price=10.234  
tax=2.34/100  
price*tax
```

Out[1]: 0.23947559999999998

```
In [6]: price + _
```

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[6], line 1  
----> 1 price + _  
  
TypeError: unsupported operand type(s) for +: 'float' and 'str'
```

```
In [ ]:
```