

```
In [1]: import sys
import keyword
import operator
from datetime import datetime
import os
```

```
In [2]: print(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 [3]: len(keyword.kwlist)
```

```
Out[3]: 35
```

```
In [9]: 1 var = 10
```

```
Cell In[9], line 1
    1 var = 10
      ^
SyntaxError: invalid syntax
```

```
In [8]: val2@ = 35
```

```
Cell In[8], line 1
    val2@ = 35
      ^
SyntaxError: invalid syntax
```

```
In [10]: import = 125
```

```
Cell In[10], line 1
    import = 125
      ^
SyntaxError: invalid syntax
```

```
In [11]: val2 = 10
```

```
In [12]: val_ = 99
```

```
In [13]: # Single line comment
val1 = 10
```

```
In [14]: # Multiple
# line
# comment
val1 = 10
```

```
In [15]: '''
Multiple
line
comment
'''
val1 = 10
```

```
In [16]: """
Multiple
line
comment
"""
val1 = 10
```

```
In [17]: p = 20
q = 20
r = q
p , type(p), hex(id(p))
```

```
Out[17]: (20, int, '0x7ffba4cc2c18')
```

```
In [18]: q , type(q), hex(id(q))
```

```
Out[18]: (20, int, '0x7ffba4cc2c18')
```

```
In [19]: r , type(r), hex(id(r))
```

```
Out[19]: (20, int, '0x7ffba4cc2c18')
```

```
In [20]: p = 20
p = p + 10
p
```

```
Out[20]: 30
```

```
In [21]: intvar = 20 # Integer variable
floatvar = 5.57 # Float Variable
strvar = "Python Language" # String variable
print(intvar)
print(floatvar)
print(strvar)
```

```
20
5.57
Python Language
```

```
In [22]: intvar , floatvar , strvar = 20,5.57,"Python Language"
print(intvar)
print(floatvar)
print(strvar)
```

```
20
5.57
Python Language
```

```
In [23]: p1 = p2 = p3 = p4 = 44
print(p1,p2,p3,p4)
```

```
44 44 44 44
```

```
In [24]: val1 = 10
print(val1)
print(type(val1))
print(sys.getsizeof(val1))
print(val1, " is Integer?", isinstance(val1, int))
```

```
10
<class 'int'>
28
10 is Integer? True
```

```
In [25]: val2 = 92.78
print(val2)
print(type(val2))
print(sys.getsizeof(val2))
print(val2, " is float?", isinstance(val2, float))
```

```
92.78
<class 'float'>
24
92.78 is float? True
```

```
In [26]: val3 = 25 + 10j
print(val3)
print(type(val3))
print(sys.getsizeof(val3))
print(val3, " is complex?", isinstance(val3, complex))
```

```
(25+10j)
<class 'complex'>
32
(25+10j) is complex? True
```

```
In [27]: sys.getsizeof(int())
```

```
Out[27]: 28
```

```
In [28]: sys.getsizeof(float())
```

```
Out[28]: 24
```

```
In [29]: sys.getsizeof(complex())
```

```
Out[29]: 32
```

```
In [30]: bool1=True
```

```
In [31]: bool2=False
```

```
In [32]: print(type(bool1))
```

```
<class 'bool'>
```

```
In [33]: print(type(bool2))
```

```
<class 'bool'>
```

```
In [34]: isinstance(bool1, bool)
```

```
Out[34]: True
```

```
In [35]: bool(0)
```

```
Out[35]: False
```

```
In [36]: bool(1)
```

```
Out[36]: True
```

```
In [37]: bool(None)
```

```
Out[37]: False
```

```
In [38]: bool(False)
```

```
Out[38]: False
```

```
In [39]: str1 = "HELLO PRIYANKA"
         print(str1)
```

```
HELLO PRIYANKA
```

```
In [40]: mystr = 'Hello Hyderabad'
         print(mystr)
```

```
Hello Hyderabad
```

```
In [41]: mystr = "Hello Hyderabad"
         print(mystr)
```

```
Hello Hyderabad
```

```
In [43]: mystr = '''Hello
           World '''
         print(mystr)
```

```
Hello
```

```
World
```

```
In [45]: mystr = """Hello
           World"""
         print(mystr)
```

```
Hello
```

```
World
```

```
In [46]: mystr = ('Happy '
                  'Tuesday '
                  'Everyone')
         print(mystr)
```

```
Happy Tuesday Everyone
```

```
In [47]: mystr2 = 'Woohoo '
         mystr2 = mystr2*5
         mystr2
```

```
Out[47]: 'Woohoo Woohoo Woohoo Woohoo Woohoo '
```

```
In [48]: len(mystr2)
```

```
Out[48]: 35
```

```
In [49]: str1
```

Out[49]: 'HELLO PRIYANKA'

In [50]: `str1[0]`

Out[50]: 'H'

In [51]: `str1[len(str1)-1]`

Out[51]: 'A'

In [52]: `str1[-1]`

Out[52]: 'A'

In [53]: `str1[6]`

Out[53]: 'P'

In [54]: `str1[5]`

Out[54]: ' '

In [55]: `str1[0:5]`

Out[55]: 'HELLO'

In [57]: `str1[6:14]`

Out[57]: 'PRIYANKA'

In [58]: `str1[-4:]`

Out[58]: 'ANKA'

In [60]: `str1[-8:]`

Out[60]: 'PRIYANKA'

In [61]: `str1[:4]`

Out[61]: 'HELL'

In [62]: `str1[:6]`

Out[62]: 'HELLO '

In [63]: `str1`

Out[63]: 'HELLO PRIYANKA'

In [65]: `str1[0:5]='HOLAA'`

```
-----  
TypeError                                Traceback (most recent call last)  
Cell In[65], line 1  
----> 1 str1[0:5]='HOLAA'  
  
TypeError: 'str' object does not support item assignment
```

```
In [67]: del str1  
         print (str1)
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[67], line 2  
      1 del str1  
----> 2 print (str1)  
  
NameError: name 'str1' is not defined
```

```
In [68]: s1="Hello"  
         s2="Mahesh"  
         s3=s1+s2  
         print(s3)
```

HelloMahesh

```
In [ ]:
```