import sys import keyword import operator from datetime import datetime import os

In [5]:
```
print(keyword.kwlist)
```

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'clas
s', '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 [6]:
```
len(keyword.kwlist)
```

Out[6]: 35

In [14]:
```
1 var =10
```

```
  Cell In[14], line 1
    1 var =10
      ^
SyntaxError: invalid syntax
```

In [12]:
```
val2@ =35
```

```
  Cell In[12], line 1
    val2@ =35
          ^
SyntaxError: invalid syntax
```

In [9]:
```
import=125
```

```
  Cell In[9], line 1
    import=125
           ^
SyntaxError: invalid syntax
```

In [16]:
```
val2=10
```

In [15]:
```
val2=10
val2
```

Out[15]: 10

In [11]:
```
va1_=99
```

In [17]:
```
# single line comment
val1 = 10
```

In [18]:
```
# multiple
# line
#comment
val1 = 10
```

In [19]:
```
'''
multiple
line
comment
'''
val1 = 20
```

In [20]:
```
"""
multiple
line
comment
"""
val1 = 10
```

In [26]:
```
p = 20
q = 30
r = q
p, type(p), hex(id(p))
```

Out[26]: (20, int, '0x7ffa41852c18')

In [22]:
```
q,type(q), hex(id(q))
```

Out[22]: (30, int, '0x7ffa41852d58')

In [23]:
```
r,type(r), hex(id(r))
```

Out[23]: (30, int, '0x7ffa41852d58')

In [24]:
```
p=20
p= p+10
p
```

Out[24]: 30

In [25]:
```
intvar = 10
floatvar = 2.57
strvar= "Dillep vadapalli"
print(intvar)
print(floatvar)
print(strvar)
```

```
10
2.57
Dillep vadapalli
```

In [27]:
```
intvar , floatvar , strvar = 10,2.5,"saimounika"
print(intvar)
print(floatvar)
print(strvar)
```

```
10
2.5
saimounika
```

In [28]:
```
p1 = p2 = p3 = p4 = 44
print(p1,p2,p3,p4)
```

```
44 44 44 44
```

In [29]:
```
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 [30]:
```
val2 = 10.9
print(val2)
print(type(val2))
print(sys.getsizeof(val2))
print(val2, " is float?", isinstance(val2, float))
```

```
10.9
<class 'float'>
24
10.9  is float? True
```

In [31]:
```
val3 = 10 +6j
print(val3)
print(type(val3))
print(sys.getsizeof(val3))
print(val3, " is complex?", isinstance(val3, complex))
```

```
(10+6j)
<class 'complex'>
32
(10+6j)  is complex? True
```

In [32]:
```
sys.getsizeof(int())
```

Out[32]: 28

In [33]:
```
sys.getsizeof(float())
```

Out[33]: 24

In [34]:
```
sys.getsizeof(complex())
```

Out[34]: 32

In [35]:
```
bool1=True
```

In [36]:
```
bool2=False
```

In [37]:
```
print(type(bool1))
```

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

In [38]:
```
print(type(bool2))
```

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

In [41]:
```
isinstance(bool1,bool)
```

Out[41]: True

In [42]:
```
bool(0)
```

Out[42]: False

In [44]:
```
bool(1)
```

Out[44]: True

In [46]:
```
bool(None)
```

Out[46]: False

In [47]:
```
bool(False)
```

Out[47]: False

In [48]:
```
str1 = " Hello python "
print(str1)
```

```
 Hello python
```

In [50]:
```
mystr = 'hello python'
print(mystr)
```

```
hello python
```

In [51]:
```
mystr = "hello world"
print(mystr)
```

```
hello world
```

In [53]:
```
mystr = """ hello
               world"""
print(mystr)
```

```
 hello
               world
```

In [57]:
```
mystr = ('hello'
              'dillep'
                'vadapalli')
print(mystr)
```

```
hellodillepvadapalli
```

In [60]:
```
mystr2 = 'woohoo'
mystr2 = mystr2*5
mystr2
```

Out[60]: 'woohoowoohoowoohoowoohoowoohoo'

In [61]:
```
len(mystr2)
```

Out[61]: 30

In [64]:
```
str1= 'hello charan'
str1
```

Out[64]: 'hello charan'

In [65]:
```
str1[0]
```

Out[65]: 'h'

In [66]:
```
str1[1]
```

Out[66]: 'e'

In [67]:
```
str1[-1]
```

Out[67]: 'n'

In [68]:
```
str1[6]
```

Out[68]: 'c'

In [69]:
```
str1[5]
```

Out[69]: ' '

In [70]:
```
str1[0:5]
```

Out[70]: 'hello'

In [71]:
```
str1[6:12]
```

Out[71]: 'charan'

In [72]:
```
str1[-4:]
```

Out[72]: 'aran'

In [73]:
```
str1[-6:]
```

Out[73]: 'charan'

In [74]:
```
str1[:4]
```

Out[74]: 'hell'

In [75]:
```
str1[:6]
```

Out[75]: 'hello '

In [76]:
```
str1
```

Out[76]: 'hello charan'

In [78]:
```
str1[0:5] = 'priya'
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[78], line 1
----> 1 str1[0:5] = 'priya'

TypeError: 'str' object does not support item assignment
```

In [79]:
```
del str1
print(str1)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[79], line 2
      1 del str1
----> 2 print(str1)

NameError: name 'str1' is not defined
```

In [81]:
```
s1 = "hello "
s2 = "arshad"
s3 = s1+s2
print(s3)
```

```
hello arshad
```

In [ ]:
```

```