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', 'globa
'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise', 'retu
'try', 'while', 'with', 'yield']
```

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

Out[3]: 35

In [4]:
```
1var=10
```

```
  Cell In[4], line 1
    1var=10
    ^
SyntaxError: invalid decimal literal
```

In [5]:
```
val2@=35
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[5], line 1
----> 1 val2@=35

NameError: name 'val2' is not defined
```

In [6]:
```
import=125
```

```
  Cell In[6], line 1
    import=125
          ^
SyntaxError: invalid syntax
```

In [13]:
```
val2 = 10
```

In [8]:
```
val_ = 99
```

In [ ]:
```
# One line comment
val1  = 10
```

In [ ]:
```
# Mult-line
# comment
val1  = 10
```

In [ ]:
```
'''
Mult-line
comment
'''
val1  = 10
```

In [ ]:
```
"""
Multi-line comment
"""
val1  = 10
```

In [14]:
```
p=20
q=20
r=q
p,type(p),hex(id(p))
```

Out[14]: (20, int, '0x7fff1f7c7588')

In [16]:
```
q, type(q), hex(id(q))
```

Out[16]: (20, int, '0x7fff1f7c7588')

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

Out[18]: (20, int, '0x7fff1f7c7588')

In [19]:
```
p=20
p=p+10
p
```

Out[19]: 30

In [20]:
```
intvar=10
flaotvar=2.57
strvar='Python'
print(intvar)
print(flaotvar)
print(strvar)
```

```
10
2.57
Python
```

In [21]:
```
intvar , floatvar , strvar = 10,2.57,"Python"
print(intvar)
print(floatvar)
print(strvar)
```

```
10
2.57
Python
```

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

```
44 44 44 44
```

In [24]:
```
v=10
print(v)
print(type(v))
print(sys.getsizeof(v))
print(v, 'is integer?')
```

```
10
<class 'int'>
28
10 is integer?
```

In [25]:
```
v=92.78
print(v)
print(type(v))
print(sys.getsizeof(v))
print(v,'is float?')
```

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

In [27]:
```
v=25+10j
print(v)
print(type(v))
print(sys.getsizeof(v))
print(v, 'is complex?')
```

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

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

Out[29]: 28

In [30]:
```
sys.getsizeof(float())
```

Out[30]: 24

In [31]:
```
sys.getsizeof(complex())
```

Out[31]: 32

In [32]:
```
b=True
b1=False
print(type(b))
print(type(b1))
```

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

In [33]:
```
isinstance(b, bool)
```

Out[33]: True

In [36]:
```
bool(0)
```

Out[36]: False

In [37]:
```
bool(1)
```

Out[37]: True

In [38]:
```
bool(None)
```

Out[38]: False

In [39]:
```
bool(False)
```

Out[39]: False

In [40]:
```
s='Harsha'
print(s)
```

```
Harsha
```

In [42]:
```
m='Hello'
print(m)
```

```
Hello
```

In [43]:
```
ss='''hello
world'''
print(ss)
```

```
hello
world
```

In [44]:
```
mystr = ('Happy '
'Monday '
'Everyone')
print(mystr)
```

```
Happy Monday Everyone
```

In [45]:
```
mystr2 = 'Woohoo '
mystr2 = mystr2*5
mystr2
```

Out[45]: 'Woohoo Woohoo Woohoo Woohoo Woohoo '

In [46]:
```
len(mystr2)
```

Out[46]: 35

In [49]:
```
s
```

Out[49]: 'Harsha'

In [50]:
```
s[0]
```

Out[50]: 'H'

In [52]:
```
s[len(s)-1]
```

Out[52]: 'a'

In [53]:
```
s[-1]
```

Out[53]: 'a'

In [55]:
```
s[5]
```

Out[55]: 'a'

In [56]:
```
s[2]
```

Out[56]: 'r'

In [57]:
```
s[0:4]
```

Out[57]: 'Hars'

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

Out[58]: 'rsha'

In [59]:
```
s[:4]
```

Out[59]: 'Hars'

In [61]:
```
s[:5]
```

Out[61]: 'Harsh'

In [62]:
```
s
```

Out[62]: 'Harsha'

In [63]:
```
s[:]
```

Out[63]: 'Harsha'

In [64]:
```
s[0:5]='Holaa'
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[64], line 1
----> 1 s[0:5]='Holaa'

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

In [65]:
```
del s
```

In [66]:
```
print(s)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[66], line 1
----> 1 print(s)

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

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

Helloharsha

In [ ]: