In [4]:
```
import sys
import keyword
import operator
from datetime import datetime
import os
```

keywords

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

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class',
'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'globa
l', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise',
'return', 'try', 'while', 'with', 'yield']
```

In [6]:
```
len(keyword.kwlist)
```

Out[6]: 35

identifier

In [7]:
```
1var=10 #identifier can't start with adigit
```

```
  Cell In[7], line 1
    1var=10
    ^
SyntaxError: invalid decimal literal
```

In [8]:
```
val@=20 #identifier can't start with symbol
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[8], line 1
----> 1 val@=20

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

In [9]:
```
import=125 # keywords can't be used as identifier
```

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

In [11]:
```
""" correct way of defining an identifier
(identifier can be a combition of letters in lowercase (a to z) or uppercase   )
"""
val2=10
```

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

comments in python

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

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

In [16]:
```
'''
multiple
line
comment
'''
val1=10
```

statements

In [18]:
```
p=20
q=20
r=q
p, type(p),hex(id(q))
```

Out[18]: (20, int, '0x7ffb5da52c18')

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

Out[19]: (20, int, '0x7ffb5da52c18')

In [20]:
```
r,type(r),hex(id(r))
```

Out[20]: (20, int, '0x7ffb5da52c18')

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

Out[24]: 30

variable assigment

In [26]:
```
intvar=10
floatvar=2.57
strvar="sandesh"
print(intvar)
print(floatvar)
print(strvar)
```

```
10
2.57
sandesh
```

multiple assignment

In [29]:
```
intvar,floatvar,strvar=10,2.25,"sandesh"
print(intvar)
print(floatvar)
print(strvar)
```

```
10
2.25
sandesh
```

In [31]:
```
p1=p2=p3=p4=40
print(p1,p2,p3,p4)
```

```
40 40 40 40
```

data types

numeric

In [33]:
```
val1=10
print(val1)
print(type(val1))
print(sys.getsizeof(val1))
```

```
10
<class 'int'>
28
```