Variable :

In [ ]:

```
Variable is name given to the Memory Location
Varible is container to store the values

```

keywords

In [ ]:

```
reserved words which can not be used as variables
```

In [2]:

```
import keyword
help('keywords')
```

```
Here is a list of the Python keywords.  Enter any keyword to get more hel
p.

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

In [5]:

```
and=200
```

```
  Cell In[5], line 1
    and=200
    ^
SyntaxError: invalid syntax
```

In [7]:

```
print(keyword.kwlist)
```

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'brea
k', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finall
y', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlo
cal', 'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yi
eld']
```

In [8]:

```
None="Amol"
```

```
  Cell In[8], line 1
    None="Amol"
    ^
SyntaxError: cannot assign to None
```

Identifiers

In [ ]:

```
Name of Variable / function / class
```

Rules for Identifiers

In [ ]:

```
1. a-z  , A-Z , _ , 0-9
2. starts with only alphabates or _
3. white spaces not allowed
4. keywords can not be used as indetifiers
```

In [15]:

```
price=459
price
```

Out[15]:

```
459
```

In [12]:

```
_price=909
```

In [16]:

```
Price=9768.9078  # Python is case sensitive  price and Price both are diff
Price
```

Out[16]:

```
9768.9078
```

In [17]:

```
1price=45.78
```

```
  Cell In[17], line 1
    1price=45.78
    ^
SyntaxError: invalid decimal literal
```

In [20]:

```
/price=45.78
```

```
<>:1: SyntaxWarning: 'float' object is not callable; perhaps you missed a
comma?
<>:1: SyntaxWarning: 'float' object is not callable; perhaps you missed a
comma?
C:\Users\HP\AppData\Local\Temp\ipykernel_15700\3364727917.py:1: SyntaxWar
ning: 'float' object is not callable; perhaps you missed a comma?
  price=45.78()

---------------------------------------------------------------------------
--
TypeError                                 Traceback (most recent call las
t)
Cell In[20], line 1
----> 1 price=45.78()

TypeError: 'float' object is not callable
```

In [21]:

```
first_name="Amir Khan"
```

In [22]:

```
firstname="Amir Khan"
```

In [23]:

```
1 first name="Amir Khan"
```

```
  Cell In[23], line 1
    first name="Amir Khan"
          ^
SyntaxError: invalid syntax
```

In [24]:

```
1 first3name="Amir Khan"
```

In [25]:

```
1 firstname12345="Amir Khan"
```

In [26]:

```
1 fir6st4na_me="Amir Khan"
```

In [27]:

```
1 9fir6st4na_me="Amir Khan"
```

```
  Cell In[27], line 1
    9fir6st4na_me="Amir Khan"
    ^
SyntaxError: invalid decimal literal
```

Exporing Variables

Assigning Single Value to the Varaible

```
1 a=780
2 print(f"Value of a is {a}")
```

In [29]:

```
1 a=b=780
2 print(f"Value of a is {a} Value of b is {b}")
```

```
Value of a is 780 Value of b is 780
```

Assigning multiple values to the multiple variables

In [ ]:

```
a,b,c=500,600,700
# a=500
# b=600
# c=700

print(f"Value of a is {a} Value of b is {b} Value of c is {c}")
type(a)
```

In [32]:

```
a,b,c=900
```

```
---------------------------------------------------------------------------
--
TypeError                                 Traceback (most recent call las
t)
Cell In[32], line 1
----> 1 a,b,c=900

TypeError: cannot unpack non-iterable int object
```

Assiginning multiple values to single Variable

In [ ]:

```
x=100,300,600 # tuple
type(x)
```

In [ ]:

```

```