PYTHON VARIABLE

In [2]:
```
va = 9
va
```

Out[2]: 9

In [3]:
```
id(va)
```

Out[3]: 140729053162168

In [4]:
```
1nit = 18
1nit
```

```
  Cell In[4], line 1
    1nit = 18
    ^
SyntaxError: invalid decimal literal
```

In [5]:
```
nit1 = 18
nit1
```

Out[5]: 18

In [7]:
```
nit2 = 19
NIT2
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[7], line 2
      1 nit2 = 19
----> 2 NIT2

NameError: name 'NIT2' is not defined
```

In [8]:
```
nit2
```

Out[8]: 19

In [9]:
```
v$ = 90
v$
```

```
  Cell In[9], line 1
    v$ = 90
     ^
SyntaxError: invalid syntax
```

In [10]:
```
v_ = 90
v_
```

Out[10]: 90

In [12]:
```
import keyword
keyword.kwlist
```

Out[12]:
```
['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 [13]:
```
len(keyword.kwlist)
```

Out[13]:
```
35
```

In [14]:
```
for = 67
for
```

```
  Cell In[14], line 1
    for = 67
        ^
SyntaxError: invalid syntax
```

In [15]:
```
For = 67
For
```

Out[15]:
```
67
```

In [16]:
```
def = 90
def
```

```
  Cell In[16], line 1
    def = 90
        ^
SyntaxError: invalid syntax
```

In [17]:
```
Def = 90
Def
```

Out[17]: 90

In [18]:
```
3a = 89
```

```
  Cell In[18], line 1
    3a = 89
    ^
SyntaxError: invalid decimal literal
```

In [19]:
```
True = 8
```

```
  Cell In[19], line 1
    True = 8
    ^
SyntaxError: cannot assign to True
```

In [21]:
```
true = 8
true
```

Out[21]: 8

In [22]:
```
a = 5
b = 7
c = 9

a
b
c
```

Out[22]: 9

In [23]:
```
a = 5
b = 7
c = 9

print(a)
print(b)
print(c)
```

```
5
7
9
```

In [24]:
```
import sys
sys.version
```

Out[24]:
```
'3.12.7 | packaged by Anaconda, Inc. | (main, Oct  4 2024, 13:17:27) [MSC v.1929 6
4 bit (AMD64)]'
```

In [25]:
```
import_1 = 89
import_1
```

Out[25]:
```
89
```

Variable concept in variable

Example 1: Integer Variable

In [27]:
```
age = 25
print(age)
```

```
25
```

Example 2: String Variable

In [28]:
```
name = "Alice"
print(name)
```

```
Alice
```

Example 3: Float Variable

price = 19.99 print(price)

Example 4: Boolean Variable

In [30]:
```
is_active = True
print(is_active)
```

```
True
```

1. Storing and Printing a Value

In [32]:
```
x = 10 # Storing the value 10 in a variable called 'x'
print(x) # Printing the value of 'x'
```

```
10
```

2. Using Variable in Expressions

In [33]:
```
# Assigning Values to Variable
a = 5
b = 3
result = a + b # adding two variables and storing the result in 'result'
print(result)
```

```
8
```

3. Changing the Value of a Variable

In [35]:
```
score = 50 # Initial value
print(score)
```

```
50
```

In [36]:
```
score = 100  # Changing the value of 'score'
print(score)
```

```
100
```

4. Concatenating Strings

In [47]:
```
# Assigning values to variables
first_name = "John"
last_name = "Doe"
print(first_name)
print(last_name)

# Concatenating strings and storing in a new variable
full_name = first_name + " " + last_name
print(full_name)
```

```
John
Doe
John Doe
```

5. Using Variables in a Calculation

In [48]:
```
# Assigning values to variables
length = 10
width = 5

# Calculating the area of a rectangle
area = length * width
print(area)
```

```
50
```

6. Reassigning Values to Variables

In [50]:
```
x = 10 # Initial value of x
print(x)
```

```
# Reassigning the value of x

x = 20
print(x)
```

```
10
20
```

In [ ]: