15th April 2025, Variable=Identifier=Object

In [1]:
```
va = 15 # Va=Variable/Identifier/Object & 15=Valuw
va
```

Out[1]: 15

In [2]:
```
id (va) # Where id can be used for address of the memory location
```

Out[2]: 140732149345144

In [4]:
```
1nit=100 # Error is Showing Due to Varibale Started By the Number
1nit
```

```
  Cell In[4], line 1
    1nit=100 # Error is Showing Due to Varibale Started By the Number
    ^
SyntaxError: invalid decimal literal
```

In [5]:
```
nit=100
nit1
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[5], line 2
      1 nit=100
----> 2 nit1

NameError: name 'nit1' is not defined
```

In [6]:
```
nit1=100
nit1
```

Out[6]: 100

In [7]:
```
nit2=19 # Error Due to Case censitive Variable
NIT2
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[7], line 2
      1 nit2=19 # Error Due to Case censitive Variable
----> 2 NIT2

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

In [8]:
```
v$=80 # Error Due to Spcecial character is not allowed
v$
```

```
  Cell In[8], line 1
    v$=80 # Error Due to Spcecial character is not allowed
     ^
SyntaxError: invalid syntax
```

In [9]:
```
v_=90 # in this scenario we cant add  spcial character is not allowd but we can
v_
```

Out[9]:
```
90
```

In [10]:
```
import keyword # some keyword or reserve word would not be declared as variable
keyword.kwlist
```

Out[10]:
```
['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 [11]:
```
len(keyword.kwlist)
```

Out[11]:
```
35
```

In [12]:
```
for=67 # This is the case of reserved word
for
```

```
  Cell In[12], line 1
    for=67 # This is the case of reserved word
       ^
SyntaxError: invalid syntax
```

In [13]:
```
def = 78
def
```

```
  Cell In[13], line 1
    def = 78
        ^
SyntaxError: invalid syntax
```

In [14]:
```
Def =101
Def
```

Out[14]: 101

In [15]:
```
True = 8
True
```

```
  Cell In[15], line 1
    True = 8
    ^
SyntaxError: cannot assign to True
```

In [16]:
```
true=8
true
```

Out[16]: 8

In [18]:
```
a=8
b=9
c=10
print(a)
print(b)
print(c)
```

```
8
9
10
```

In [19]:
```
import sys
sys.version
```

Out[19]: '3.12.7 | packaged by Anaconda, Inc. | (main, Oct 4 2024, 13:17:27) [MSC v.1929 64 bit (AMD64)]'

In [20]:
```
import_1=89
import_1
```

Out[20]: 89

In [ ]:
```

```