

```
In [1]: import sys
        sys.version
```

```
Out[1]: '3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)]'
```

python variable = identifier = object syntax(variable = value)

```
In [2]: v = 8
        v
```

```
Out[2]: 8
```

RULES TO DECLARE PYTHON VARIABLE

```
In [3]: var = 8
        VAR
```

```
-----
NameError                                Traceback (most recent call last)
Cell In[3], line 2
      1 var = 8
----> 2 VAR
```

**NameError:** name 'VAR' is not defined

```
In [ ]: var
```

```
Out[ ]: 8
```

```
In [ ]: v@ = 16
        v@
```

```
Cell In[8], line 1
      v@ = 16
      ^
SyntaxError: invalid syntax
```

```
In [ ]: var = 8
        VAR
```

```
Out[ ]: 8
```

```
In [ ]: v_ = 20
        v_
```

```
Out[ ]: 20
```

```
In [ ]: 1var = 25
        1var
```

Cell In[11], line 1

```
1var = 25
```

^

**SyntaxError:** invalid decimal literal

```
In [ ]: var1 = 8
        var1
```

Out[ ]: 8

```
In [ ]: '1var' = 9
        '1var'
```

Cell In[13], line 1

```
'1var' = 9
```

^

**SyntaxError:** cannot assign to literal here. Maybe you meant '==' instead of '='?

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

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

```
Out[ ]: 35
```

```
In [ ]: for = 8
```

```
Cell In[16], line 1
```

```
    for = 8
```

```
      ^
```

```
SyntaxError: invalid syntax
```

```
In [ ]: def = 79
```

Cell In[17], line 1

```
def = 79
```

^

**SyntaxError:** invalid syntax

```
In [ ]: DEF = 10
        DEF
```

Out[ ]: 10

PYTHON VARIABLE DECLARATION

```
In [4]: 2
```

Out[4]: 2

```
In [5]: 3
```

Out[5]: 3