Wellcome to NIT

Numbers

In [1]:
```
15
```

Out[1]: 15

In [2]:
```
5
```

Out[2]: 5

In [3]:
```
4+5  // addition
```

Out[3]: 9

In [4]:
```
65*54  // multiplication
```

Out[4]: 3510

In [5]:
```
45-54  //substraction
```

Out[5]: -9

In [6]:
```
65/8   // float division
```

Out[6]: 8.125

In [7]:
```
65//8  // int dividion
```

Out[7]: 8

string (text)

In [8]:
```
wellcome to fsds class
```

```
  Cell In[8], line 1
    wellcome to fsds class
              ^
SyntaxError: invalid syntax
```

In [9]:
```
'wellcome to fsds class'
```

Out[9]: 'wellcome to fsds class'

In [10]:
```
"wellcome to fsds class"
```

Out[10]: 'wellcome to fsds class'

In [11]:
```
"wellcome to
fsds class"
```

```
  Cell In[11], line 1
    "wellcome to
    ^
SyntaxError: unterminated string literal (detected at line 1)
```

In [12]:
```
"wellcome to
fsds class'''
```

```
  Cell In[12], line 1
    "wellcome to
    ^
SyntaxError: unterminated string literal (detected at line 1)
```

In [13]:
```
'''wellcome to fsds class"
```

```
  Cell In[13], line 1
    '''wellcome to fsds class"
    ^
_IncompleteInputError: incomplete input
```

In [14]:
```
'''wellcome to
fsds class'''
```

Out[14]: 'wellcome to \nfsds class'

Python variable creation

- variable name = value

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

In [6]:
```
v
```

Out[6]: 9

In [7]:
```
id(v)
```

Out[7]: 140704938439848

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

```
  Cell In[8], line 1
    9 = v
    ^
SyntaxError: cannot assign to literal here. Maybe you meant '==' instead of '='?
```

- rules to define python variable

- 1. variable name never starts withthe numbers

In [9]:
```
9v=8
```

```
  Cell In[9], line 1
    9v=8
    ^
SyntaxError: invalid decimal literal
```

In [10]:
```
v9 = 8
v9
```

Out[10]: 8

In [11]:
```
var=20
```

In [12]:
```
VAR
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[12], line 1
----> 1 VAR

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

- 2.variables are case sensitive

In [13]:
```
var
```

Out[13]: 20

In [14]:
```
nit=7
nareshit
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[14], line 2
      1 nit=7
----> 2 nareshit

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

- 3.CALL THE VARIIABLE WITH THE SAME NAME AND IT IS DEFINED

In [16]:
```
pushpa1 , pushpa2 = 200
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[16], line 1
----> 1 pushpa1 , pushpa2 = 200

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

In [19]:
```
pushpa1,pushpa2=2000,1800
```

In [21]:
```
pushpa1
pushpa2
```

Out[21]: 1800

In [22]:
```
print(pushpa1)
print(pushpa2)
```

```
2000
1800
```

In [23]:
```
nit$=7
```

```
  Cell In[23], line 1
    nit$=7
       ^
SyntaxError: invalid syntax
```

- 4.special characters will not be able to define as variable
- 5.keywords or reserved words cannot be defined as variable
- python ha 35 reserved words

In [24]:
```
if=43
```

```
  Cell In[24], line 1
    if=43
      ^
SyntaxError: invalid syntax
```

In [25]:
```
import keyword
keyword.kwlist
```

Out[25]:
```
['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']
```

- there are the all 35 keywords of python

In [ ]: