Variables:

In [ ]:
```
- variable  term  vary

- you want to save some values at some place , that place is called variabl

- variables and constant
```

In [2]:
```
number=100  # 100 values is stored in variable called number
number      # so here number is a variable
```

Out[2]:
```
100
```

In [3]:
```
number=200
number
```

Out[3]:
```
200
```

In [ ]:
```
# so here first number has 100
#         second number has 200
# number is changing its value
# thats why we are calling number as variable
```

Rules to define variables

In [4]:
```
# Upper case
NUMBER=300
NUMBER
```

Out[4]:
```
300
```

In [5]:
```
# lower case
number=400
number
```

Out[5]:
```
400
```

In [6]:
```
# combination of upper case and lower case
NUMber=500
NUMber
```

Out[6]:
```
500
```

In [7]:
```
# Combination of letters and numbers , numbers as suffix
number123=600
number123
```

Out[7]:
```
600
```

In [8]:
```
# Combination of letters and numbers, numbers as prefix
123number=700
123number
```

```
  Cell In[8], line 2
    123number=700
      ^
SyntaxError: invalid decimal literal
```

In [10]:
```
# spl charcters
number%=800
number%
```

```
  Cell In[10], line 3
    number%
           ^
SyntaxError: invalid syntax
```

In [11]:
```
#underscore
number_=900
number_
```

Out[11]: 900

In [12]:
```
# keywords
if=500
if
```

```
  Cell In[12], line 2
    if=500
      ^
SyntaxError: invalid syntax
```

In [13]:
```
sum=700
sum
```

Out[13]: 700

Note:

sum is a math operation it will works

but do not use as variable

In [14]:
```
# spaces will not allowed
number one= 700
number one
```

```
  Cell In[14], line 2
    number one= 700
           ^
SyntaxError: invalid syntax
```

In [15]:
```
number_one=700
number_one
```

Out[15]:
```
700
```

In [16]:
```
_=900
_
```

Out[16]:
```
900
```

In [ ]:
```
############### Basics###############
1) Basic syntax
2) Variables
3) python packages information
4) Basic python code
5) Conditional statements
6) functions
7) loop

################ Leve-2################
1) Strings
2) List
3) dictionary
4) tuples ======== write up
5) sets
6) file handling sessions

========== 2 weeks gap ============== statistics theory
EDA: python

############ Level-3################
1) OOPS concept in python
2) how to create your own packages
3) FLASK APPS
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: