```
In [1]:
versoin
NameError
                                           Traceback (most recent call las
t)
<ipython-input-1-0da2a7b0c4cb> in <module>
----> 1 versoin
NameError: name 'versoin' is not defined
In [30]:
print("tanoj")
tanoj
In [31]:
age = 20
print('age')
20
In [32]:
print(age)
20
In [7]:
first_name = "Tanoj"
last_name = "N"
full_name = f"{first_name} {last_name}"
print(full_name)
Tanoj N
In [8]:
## addressing whitespaces
In [9]:
print("Python")
Python
In [12]:
print("\tpython") # print using tab space
        python
```

```
In [13]:
print("\nPython") # print in new line
Python
In [14]:
print("Languages:\nPython\nScala\nJava")
Languages:
Python
Scala
Java
In [17]:
x = "value"
In [19]:
x = "value "
print(x)
value
In [20]:
print(x.strip())
                     # removes the white spaces
value
In [21]:
# Numbers
In [22]:
2+1
Out[22]:
3
In [23]:
3/2
Out[23]:
1.5
In [24]:
x=1
y=2
z=3
```

```
In [26]:
```

x,y,z=1,2,3 # advisible to declare a variable like this when we need to assign more variables

In [27]:

```
import this
```

The Zen of Python, by Tim Peters

Beautiful is better than ugly.

Explicit is better than implicit.

Simple is better than complex.

Complex is better than complicated.

Flat is better than nested.

Sparse is better than dense.

Readability counts.

Special cases aren't special enough to break the rules.

Although practicality beats purity.

Errors should never pass silently.

Unless explicitly silenced.

In the face of ambiguity, refuse the temptation to guess.

There should be one-- and preferably only one --obvious way to do it.

Although that way may not be obvious at first unless you're Dutch.

Now is better than never.

Although never is often better than *right* now.

If the implementation is hard to explain, it's a bad idea.

If the implementation is easy to explain, it may be a good idea.

Namespaces are one honking great idea -- let's do more of those!

In [33]:

import sys

In [1]:

```
#List -collection of items in a particular and it is mutuble daya type.

#String is an immutable data type

#it can be assigned by using []
```

In [10]:

```
bicycles = ['trek','redline','hero']
# elements will be accessing with 0 by indexing eg 0,1,2,3,...

print(bicycles[0])  # here to print 1st element
print(bicycles[0].title())  #capital first letter
```

trek

Trek

```
In [18]:
```

```
# assigning a new value i.e. change trek to ranger
bicycles[2] = 'ranger' # if we replace 0 with 2 in the 2nd index place
print(bicycles)
['ranger', 'redline', 'ranger']
In [19]:
#insert and apend
print(bicycles)
['ranger', 'redline', 'ranger']
In [20]:
bicycles[2] = 'hero'
bicycles[0] = 'trek'
print(bicycles)
['trek', 'redline', 'hero']
In [22]:
bicycles.append('ranger') # here it appends ranger to 4th position
print(bicycles)
['trek', 'redline', 'hero', 'ranger']
In [23]:
#include the element to desigred index
#to achive this use 'insert'
bicycles.insert(1, 'ranger') #index, value
print(bicycles)
['trek', 'ranger', 'redline', 'hero', 'ranger']
In [24]:
#how to delete a value from list
# pop() : to delete
bicycles.pop()
print(bicycles)
['trek', 'ranger', 'redline', 'hero']
In [25]:
bicycles.pop()
print(bicycles)
                   # from the above outputs pop() deletes only the LAST value
['trek', 'ranger', 'redline']
```

```
In [27]:
```

```
bicycles.pop(0)
print(bicycles)  #when we provide index value, it deletes the desired value

['ranger', 'redline']

In [31]:

cars = ['bmw', 'audi', 'jaugur', 'benz']

#sorting a list -- using sort()

cars.sort()  # default sort

cars.sort(reverse = True)  # reverse sort
print(cars)

['jaugur', 'bmw', 'benz', 'audi']

In []:
```