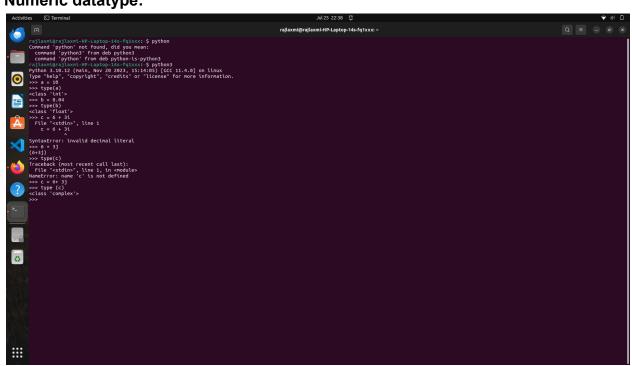# Built_in Datatype in Python:

Numeric datatype:

Sequence Datatype:

List datatype:

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> list = ["Hello" , "Rajlaxmi"]
>>> list[]
  File "<stdin>", line 1
    list[]
         ^
SyntaxError: invalid syntax
>>> list
['Hello', 'Rajlaxmi']
>>> list[3]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
IndexError: list index out of range
>>> list[0]
'Hello'
>>> list[1]
'Rajlaxmi'
>>> list[-1]
'Rajlaxmi'
>>> list[-0]
'Hello'
>>> r = [watgule]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'watgule' is not defined
>>> r = ["watgule"]
>>> r[5]
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
IndexError: list index out of range
>>> r[0]
'watgule'
>>> r[-1]
'watgule'
>>> quit()
```

Tuple datatype:

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~ $ python3          New Tab
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux   Show Menubar
Type "help", "copyright", "credits" or "license" for more information.
>>> tuple = ('hello' , 'Rajlaxmi')
>>> tuple = ( 1,3)
>>> tuple
(1, 3)
>>> tuple[0]
1
>>> tuple[1]
3
>>> quit()
```

Boolean datatype:

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~ $ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> type(True)
<class 'bool'>
>>> type(False)
<class 'bool'>
>>> a = True
>>> type(a)
<class 'bool'>
>>> type(False)
<class 'bool'>
>>> type(false)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'false' is not defined. Did you mean: 'False'?
>>> quit()
```

Set datatype:

```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~ $ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> set1 = set(["hello" , "Ria"])
>>> set1
{'hello', 'Ria'}
>>> set2 = set()
>>> set2
set()
>>> set("hii")
{'h', 'i'}
>>> set()
set()
>>> set[0]
set[0]
>>> quit()
```

Dictionary datatype:

```
>>> quit()
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~ $ python3
Python 3.10.12 (main, Nov 20 2023, 15:14:05) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> dict = {}
>>> dict
{}
>>> Dic = {'hii' ,'Ria'}
>>> Dic1 = dict
>>> Dict1
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Dict1' is not defined. Did you mean: 'Dic1'?
>>> Dic1
{}
>>> quit()
```