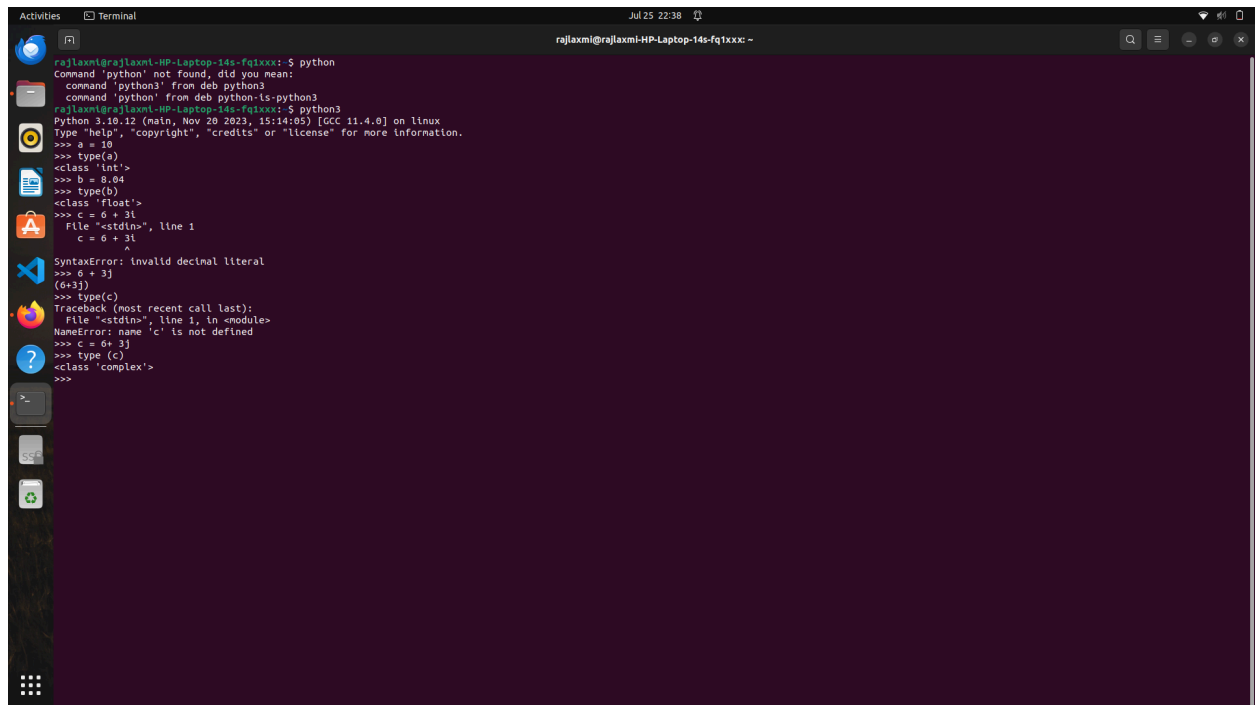


# Built\_in Datatype in Python:

## Numeric datatype:



```
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$ python
Command 'python' not found, did you mean:
  command 'python3' from deb python3
  command 'python' from deb python-is-python3
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
>>> a = 10
>>> type(a)
<class 'int'>
>>> b = 6.64
>>> type(b)
<class 'float'>
>>> c = 6 + 3j
File "<stdin>", line 1
      c = 6 + 3j
      ^
SyntaxError: Invalid decimal literal
>>> 6 + 3j
(6+3j)
>>> type(c)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
    NameError: name 'c' is not defined
>>> c = 6 + 3j
>>> type(c)
<class 'complex'>
>>>
```

## Sequence Datatype:



```
>>> String = "Rajlaxmi"
>>> String
'Rajlaxmi'
>>> String [0]
'R'
>>> String [0]
'R'
>>> String [-1]
'i'
>>> String [-3]
'x'
>>> String [2]
'j'
>>> String [1]
'a'
>>> quit()
rajlaxmi@rajlaxmi-HP-Laptop-14s-fq1xxx:~$
```

## 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
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.
>>> tuple = ('hello' , 'Rajlaxmi')
>>> tuple = ( 1,3)
>>> tuple
(1, 3)
>>> tuple[0]
1
>>> tuple[1]
3
>>> quit()

```

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## 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("hll")
{'h', 'l'}
>>> set()
set()
>>> set[0]
set[0]
>>> quit()

```

## Dictionary 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.
>>> dict = {}
>>> dict
{}
>>> Dic = {'hit' , 'Ria'}
>>> Dic1 = dict
>>> Dic1
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'Dic1' is not defined. Did you mean: 'Dic1'?
>>> Dic1
{}
>>> quit()

```