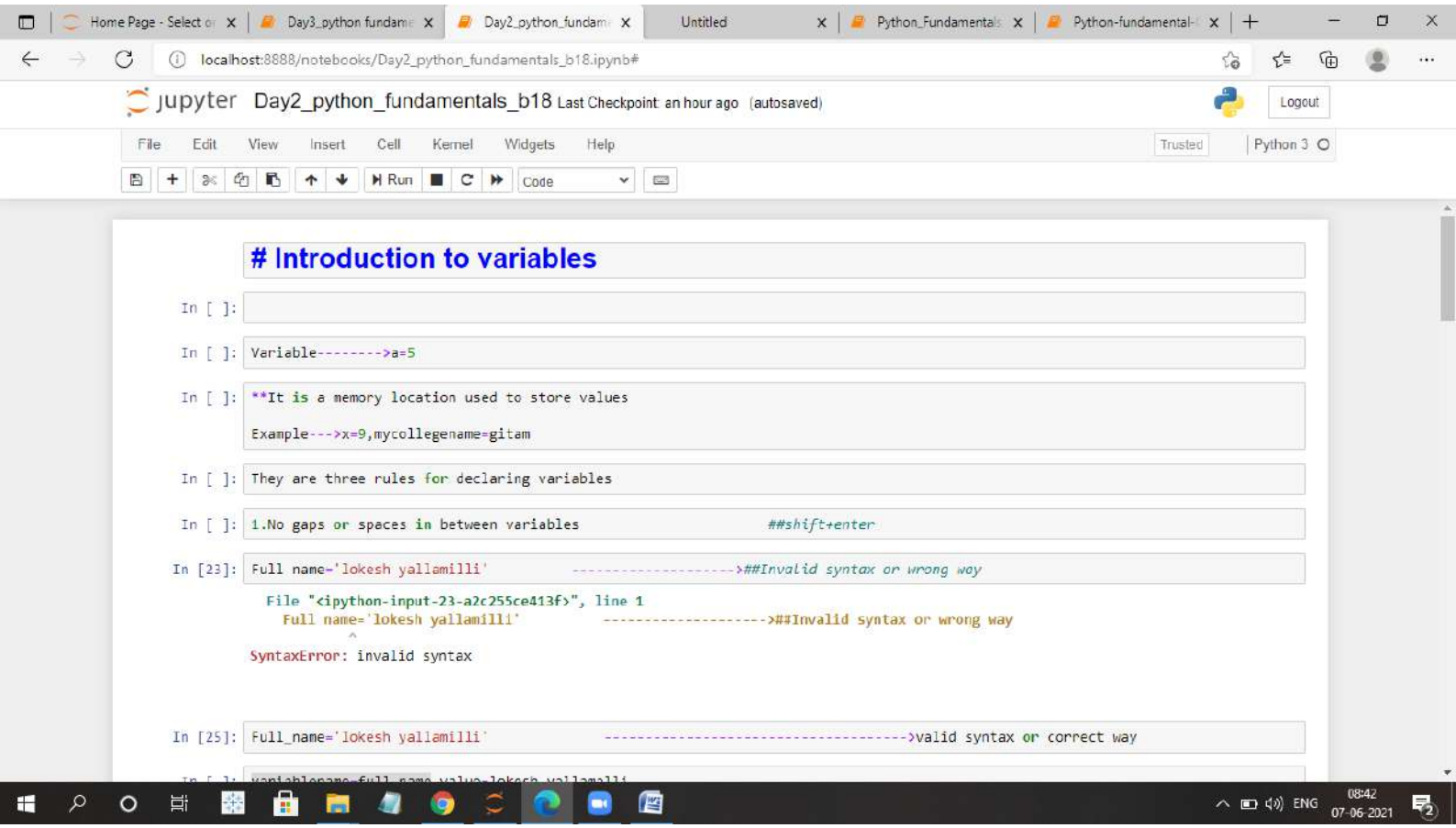
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Python-fundamental-l
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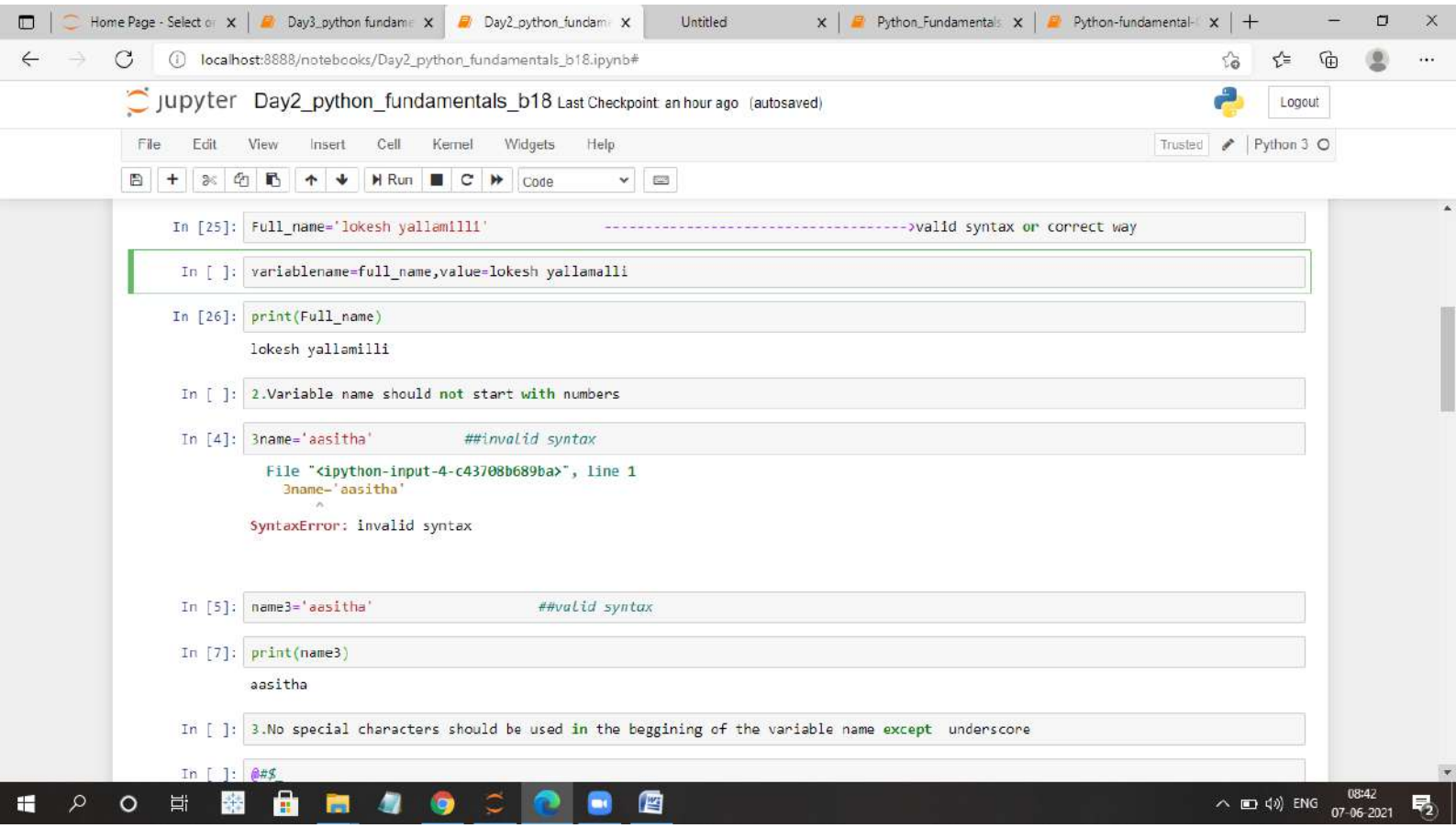
Trusted
Python 3
Run
Code
Introduction to variables
In [ ]:
In [ ]: Variable-------->a=5
In [ ]: **It is a memory location used to store values
Example--->x=9,mycollegename=gitam
In [ ]: They are three rules for declaring variables
In [ ]: 1.No gaps or spaces in between variables ##shift+enter
In [23]: Full name='lokesh yallamilli' ---------->##Invalid syntax or wrong way
File "<ipython-input-23-a2c255ce413f>", line 1
Full name='lokesh yallamilli' ---------->##Invalid syntax or wrong way
^
SyntaxError: invalid syntax
In [25]: Full_name='lokesh yallamilli' ---------->valid syntax or correct way
ENG
08:42
07-06-2021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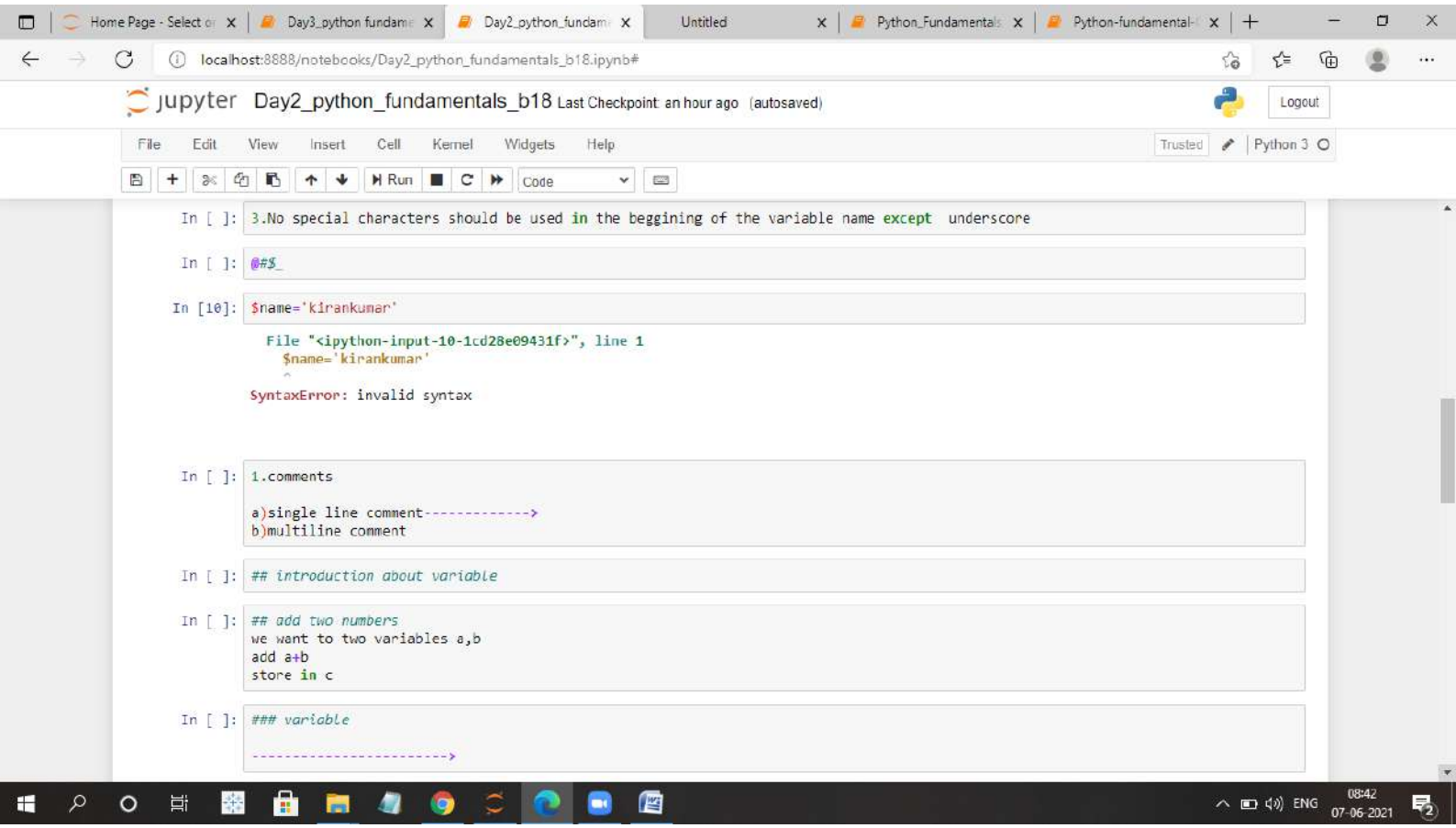
Python 3
Run
Code
In [25]: Full_name='lokesh yallamilli' ----------->valid syntax or correct way
In [ ]: variablename=full_name,value=lokesh yallamalli
In [26]: print(Full_name)
lokesh yallamilli
In [ ]: 2.Variable name should not start with numbers
In [4]: 3name='aasitha' ##invalid syntax
File "<ipython-input-4-c43708b689ba>", line 1
3name='aasitha'
^
SyntaxError: invalid syntax
In [5]: name3='aasitha' ##valid syntax
In [7]: print(name3)
aasitha
In [ ]: 3.No special characters should be used in the beggining of the variable name except underscore
In [ ]: @#$
ENG
08:42
07-06-2021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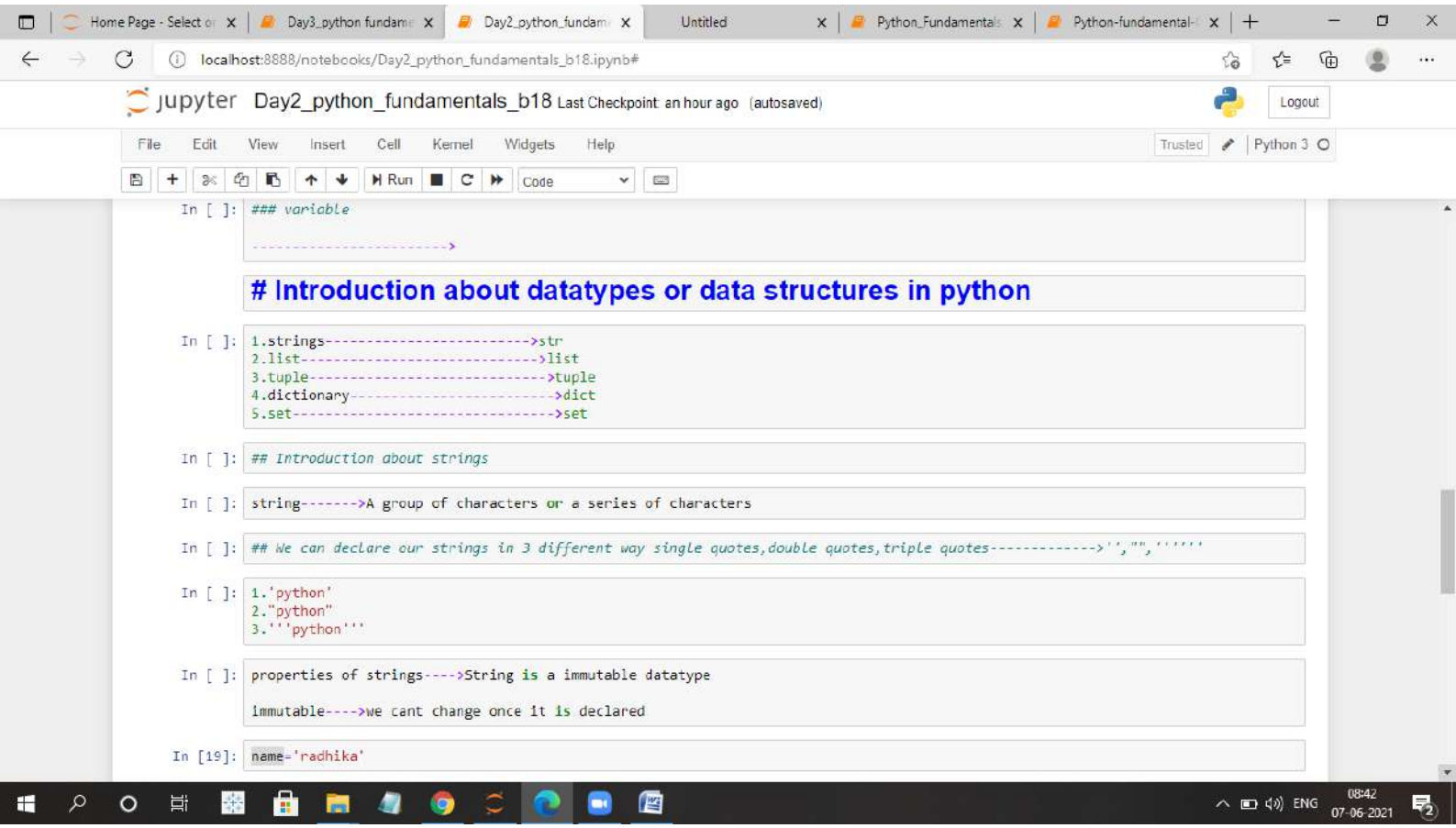
Python 3
Run
Code
In [ ]: 3.No special characters should be used in the beggining of the variable name except underscore
In [ ]: @#$_
In [10]: $name='kirankumar'
File "<ipython-input-10-1cd28e09431f>", line 1
$name='kirankumar'
^
SyntaxError: invalid syntax
In [ ]: 1.comments
a)single line comment------------>
b)multiline comment
In [ ]: ## introduction about variable
In [ ]: ## add two numbers
we want to two variables a,b
add a+b
store in c
In [ ]: ### variable
------------------------>
ENG
08:42
07-06-2021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Python 3
Run
Code
In [ ]: ### variable
---------->
Introduction about datatypes or data structures in python
In [ ]: 1.strings---------->str
2.list---------->list
3.tuple---------->tuple
4.dictionary---------->dict
5.set---------->set
In [ ]: ## Introduction about strings
In [ ]: string------->A group of characters or a series of characters
In [ ]: ## We can declare our strings in 3 different way single quotes,double quotes,triple quotes---------->'',"",''''''
In [ ]: 1.'python'
2."python"
3.'''python'''
In [ ]: properties of strings---->String is a immutable datatype
immutable---->we cant change once it is declared
In [19]: name='radhika'
ENG
08:42
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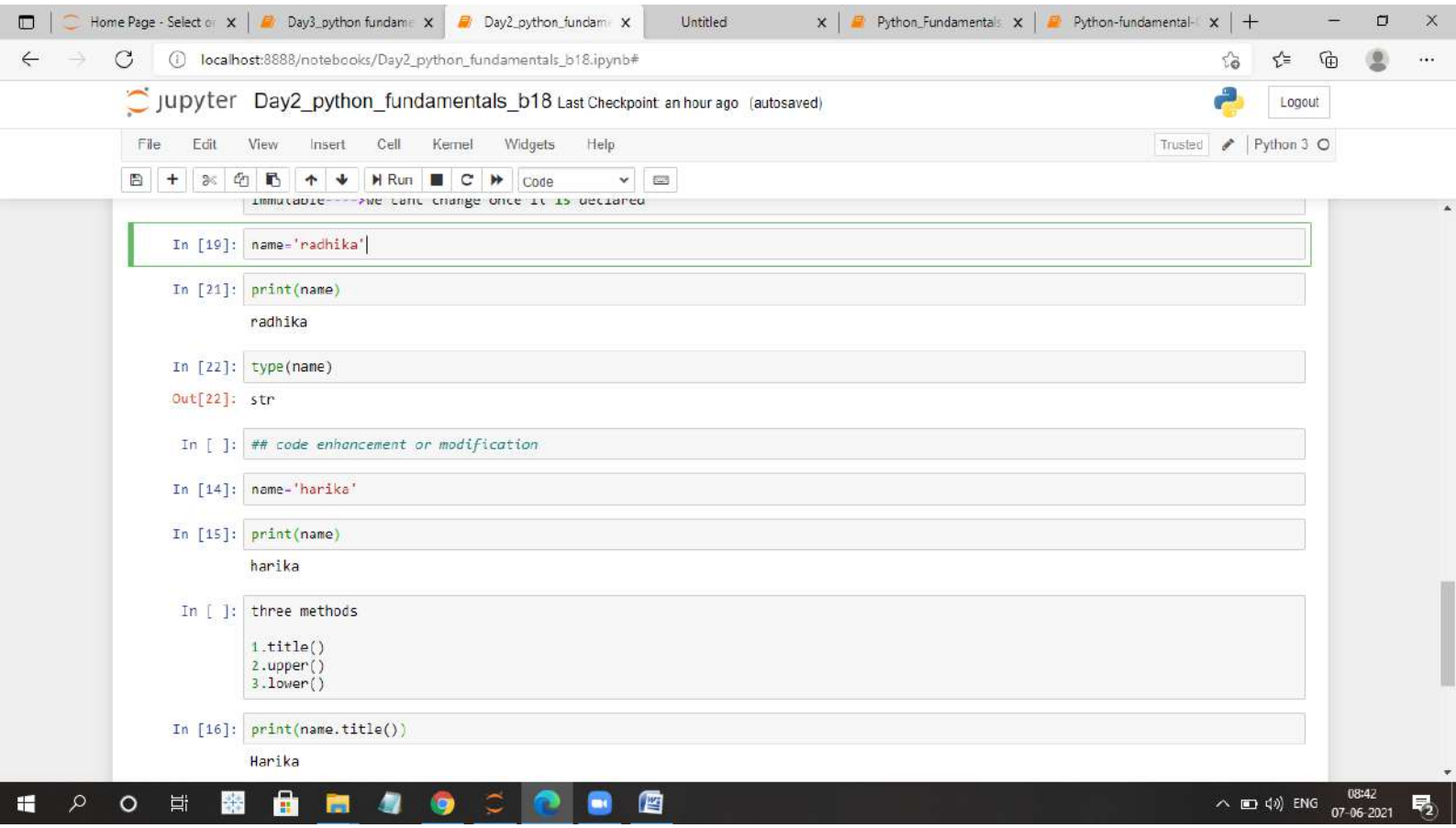
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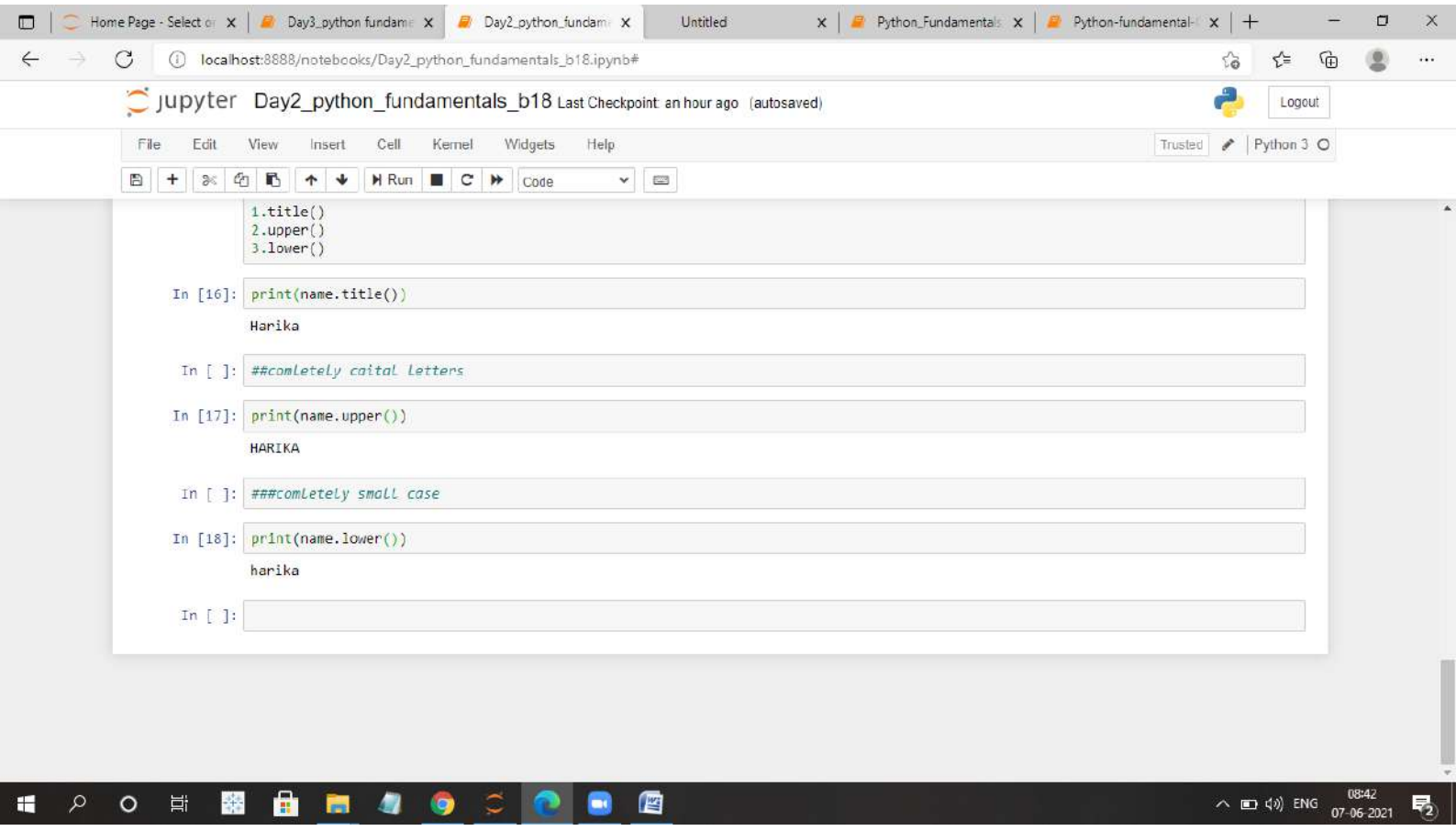
Python 3
Run
Code
In [19]: name='radhika'
In [21]: print(name)
radhika
In [22]: type(name)
Out[22]: str
In [ ]: ## code enhancement or modification
In [14]: name='harika'
In [15]: print(name)
harika
In [ ]: three methods
1.title()
2.upper()
3.lower()
In [16]: print(name.title())
Harika
ENG
08:42
07-06-2021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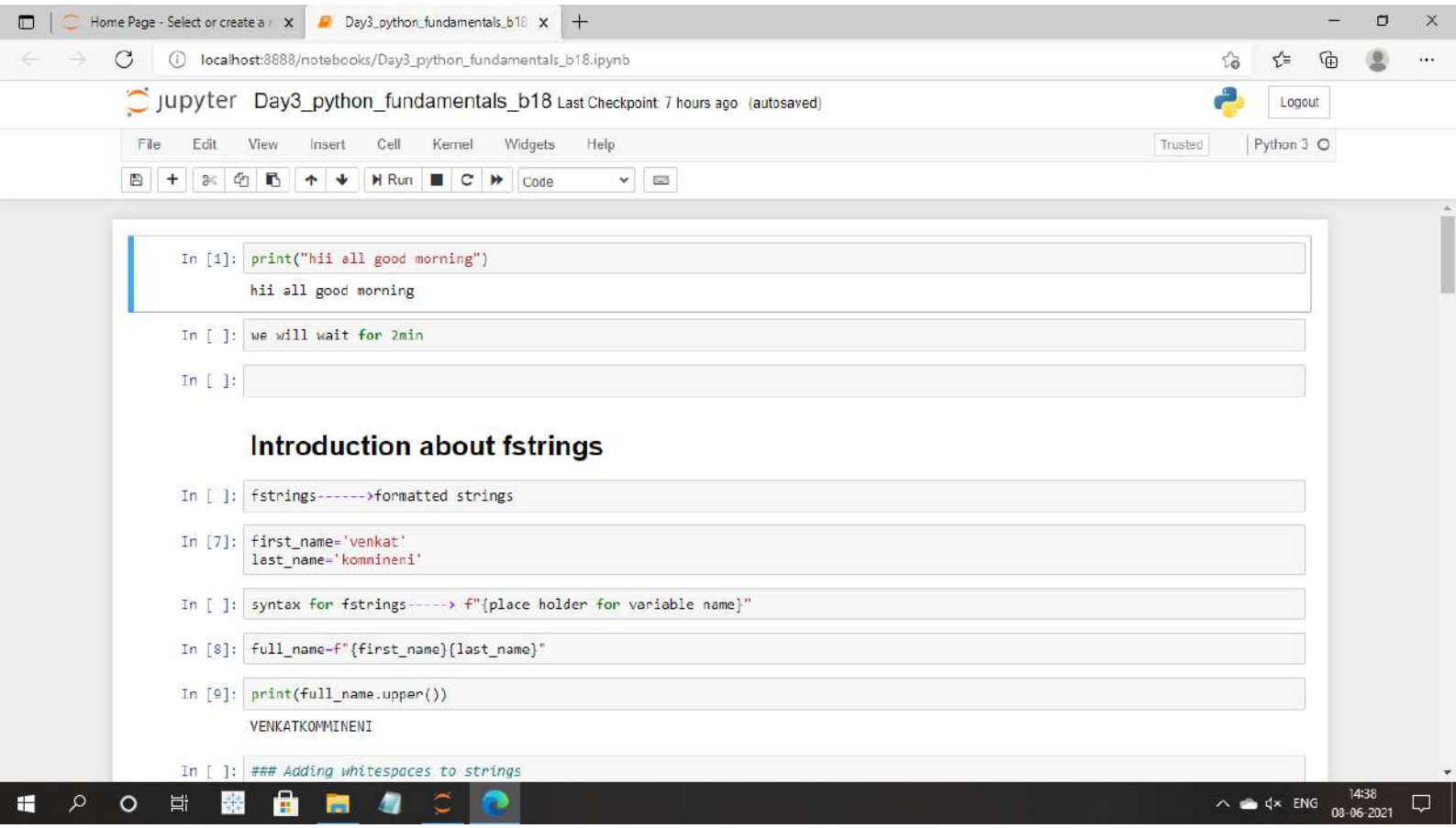
Python 3
Run
Code
1.title()
2.upper()
3.lower()
In [16]:
print(name.title())
Harika
In [ ]:
##comletely caital letters
In [17]:
print(name.upper())
HARIKA
In [ ]:
###comletely small case
In [18]:
print(name.lower())
harika
In [ ]: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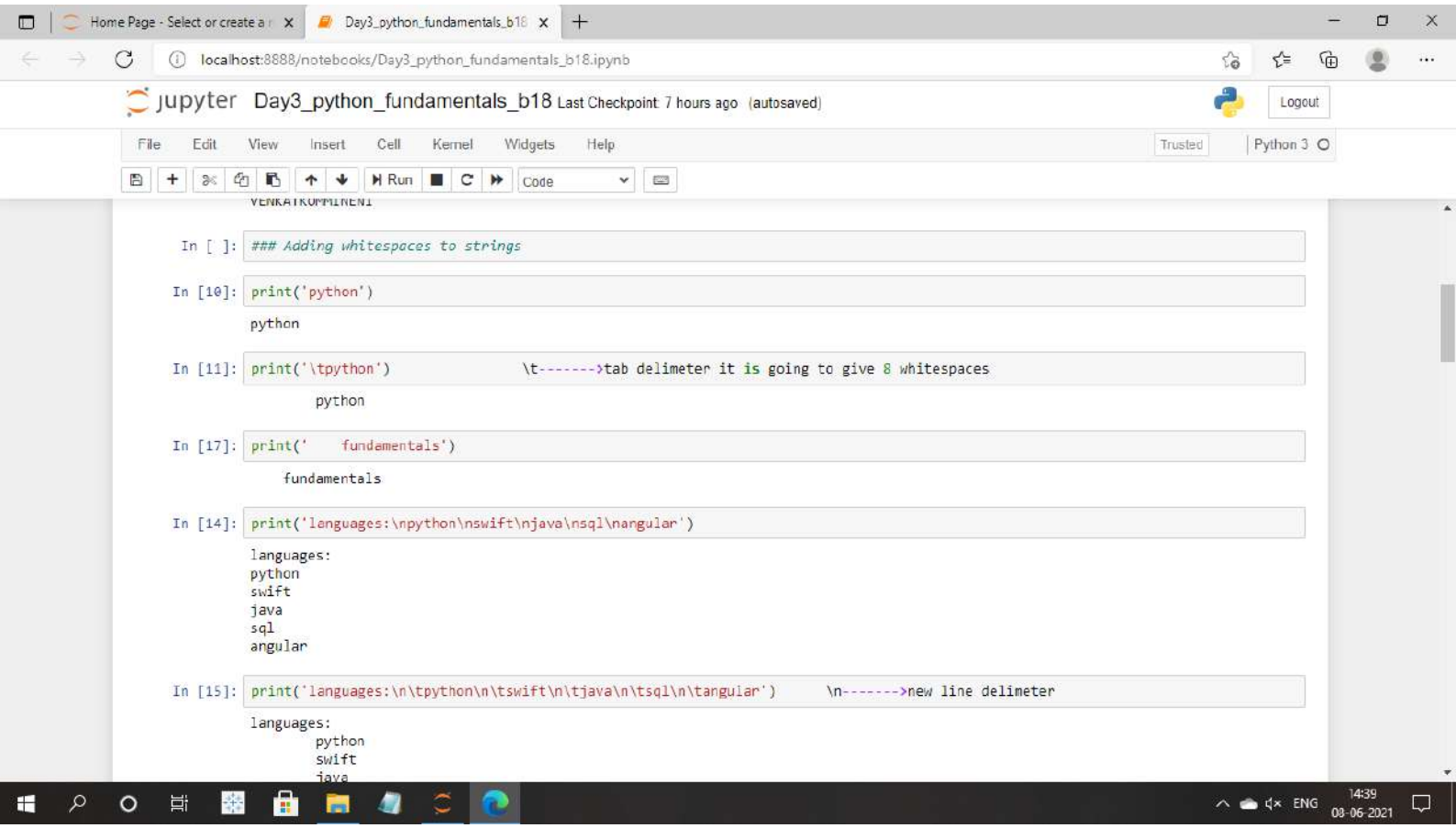
Python 3
Run
Code
In [1]: print("hii all good morning")
hii all good morning
In [ ]: we will wait for 2min
In [ ]:
Introduction about fstrings
In [ ]: fstrings------>formatted strings
In [7]: first_name='venkat'
last_name='kommineni'
In [ ]: syntax for fstrings-----> f"{place holder for variable name}"
In [8]: full_name=f"{first_name}{last_name}"
In [9]: print(full_name.upper())
VENKATKOMMINENI
In [ ]: ### Adding whitespaces to strings
ENG
14:38
08-06-2021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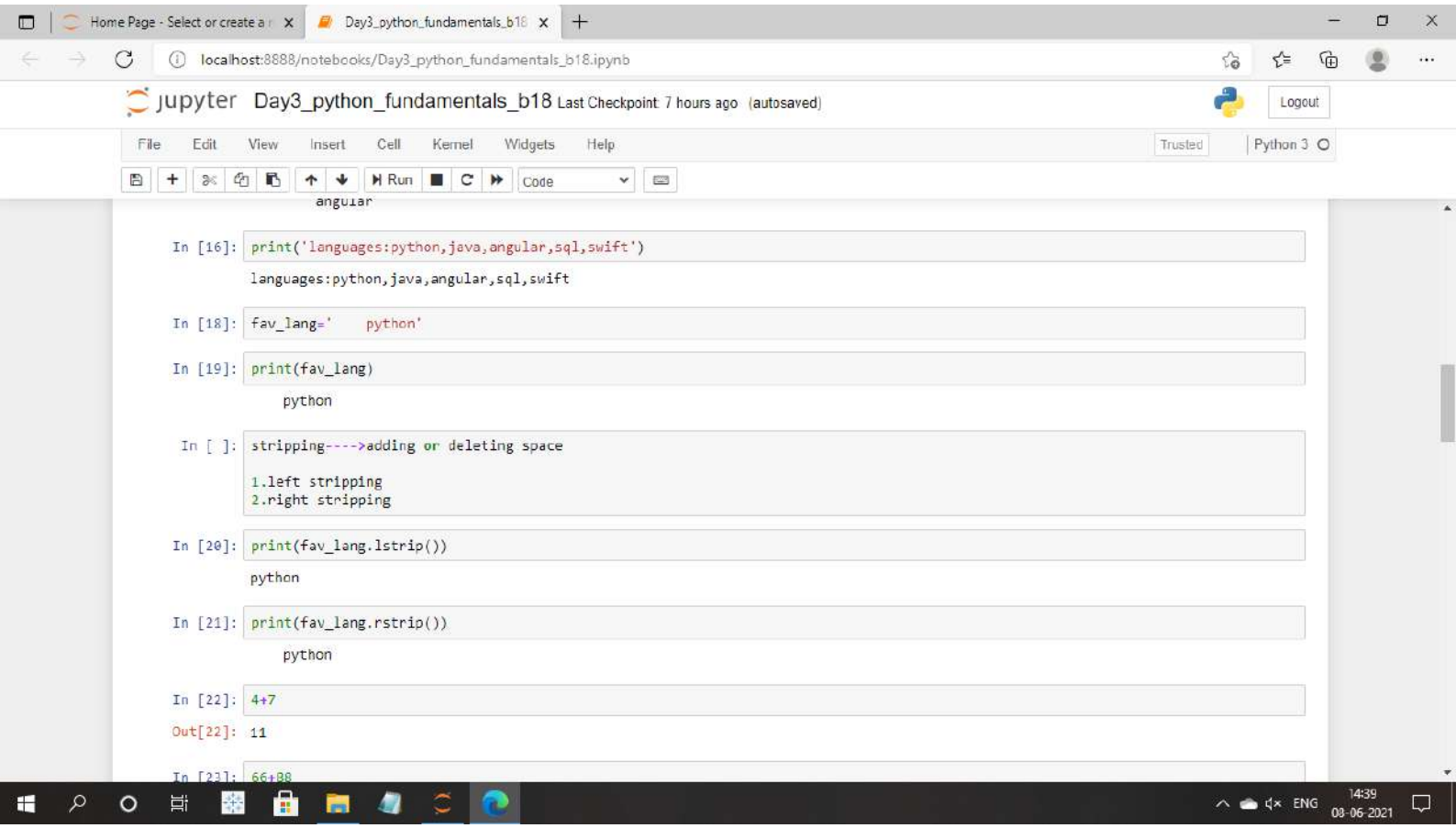
Python 3
Run
Code
VENKATKUMMINENI
In [ ]: ### Adding whitespaces to strings
In [10]: print('python')
python
In [11]: print('\tpython') \t------->tab delimeter it is going to give 8 whitespaces
python
In [17]: print(' fundamentals')
fundamentals
In [14]: print('languages:\npython\nswift\njava\nsql\nangular')
languages:
python
swift
java
sql
angular
In [15]: print('languages:\n\tpython\n\tswift\n\tjava\n\tsql\n\tangular') \n------->new line delimeter
languages:
python
swift
java
ENG
14:39
08-06-2021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Python 3
Run
Code
angular
In [16]: print('languages:python,java,angular,sql,swift')
languages:python,java,angular,sql,swift
In [18]: fav_lang=' python'
In [19]: print(fav_lang)
python
In [ ]: stripping---->adding or deleting space
1.left stripping
2.right stripping
In [20]: print(fav_lang.lstrip())
python
In [21]: print(fav_lang.rstrip())
python
In [22]: 4+7
Out[22]: 11
In [23]: 66+88
ENG
14:39
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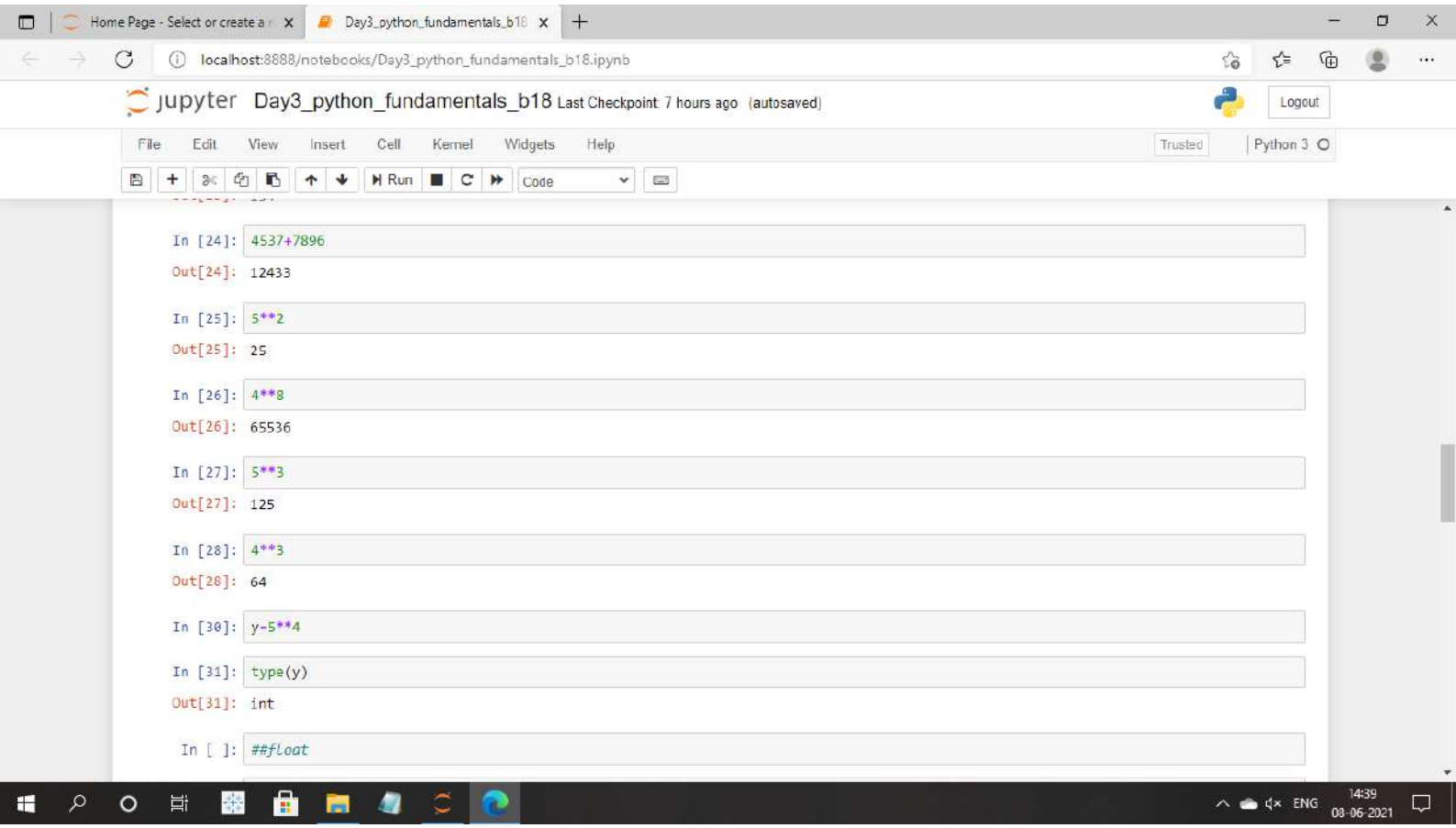
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Python 3
Run
Code
In [24]: 4537+7896
Out[24]: 12433
In [25]: 5**2
Out[25]: 25
In [26]: 4**8
Out[26]: 65536
In [27]: 5**3
Out[27]: 125
In [28]: 4**3
Out[28]: 64
In [30]: y-5**4
In [31]: type(y)
Out[31]: int
In [ ]: ##float
ENG
14:39
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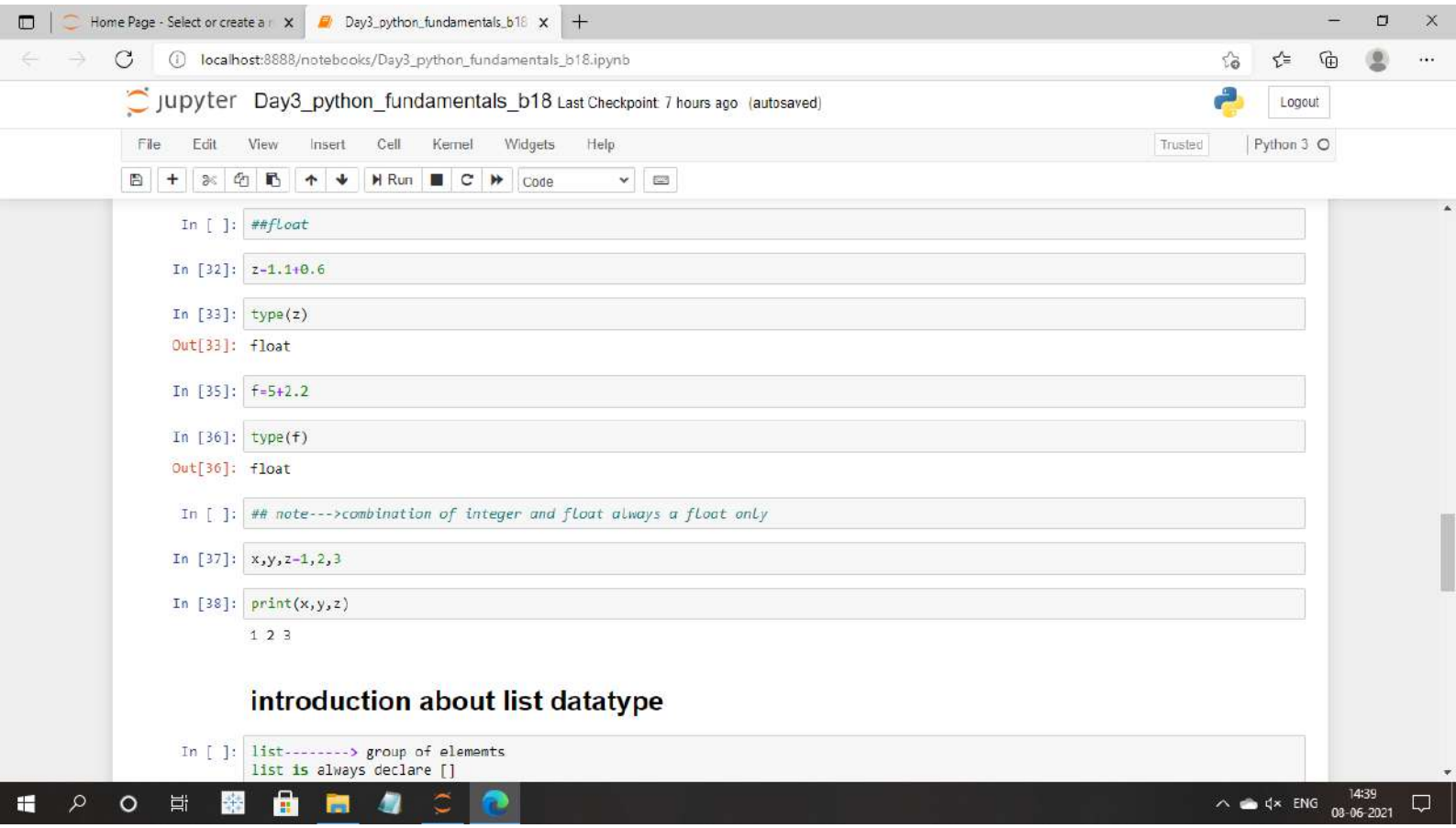
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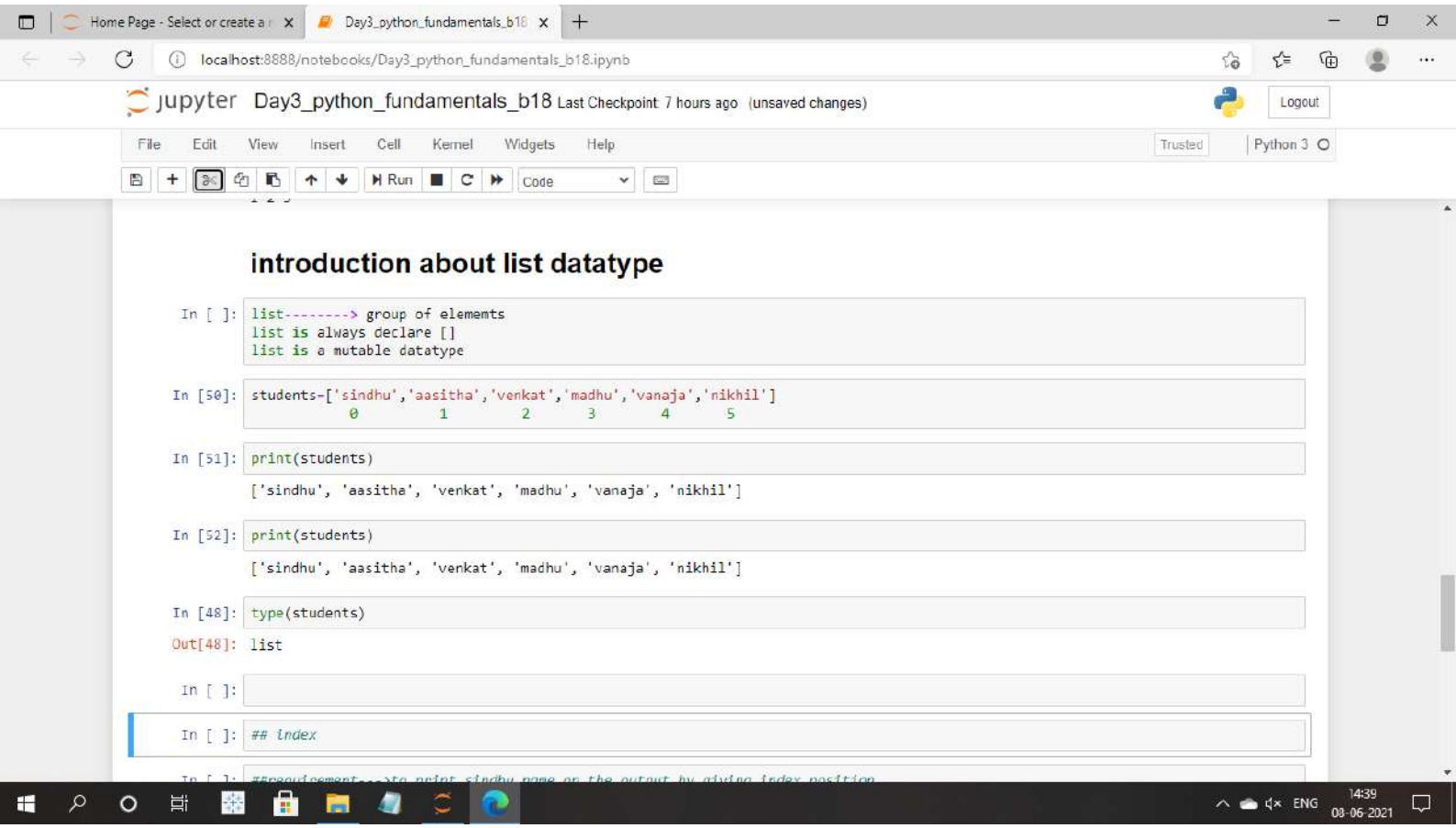
Python 3
Run
Code
In [ ]: ##float
In [32]: z=1.1+0.6
In [33]: type(z)
Out[33]: float
In [35]: f=5+2.2
In [36]: type(f)
Out[36]: float
In [ ]: ## note--->combination of integer and float always a float only
In [37]: x,y,z=1,2,3
In [38]: print(x,y,z)
1 2 3
introduction about list datatype
In [ ]: list--------> group of elements
list is always declare []
ENG
14:39
08-06-2021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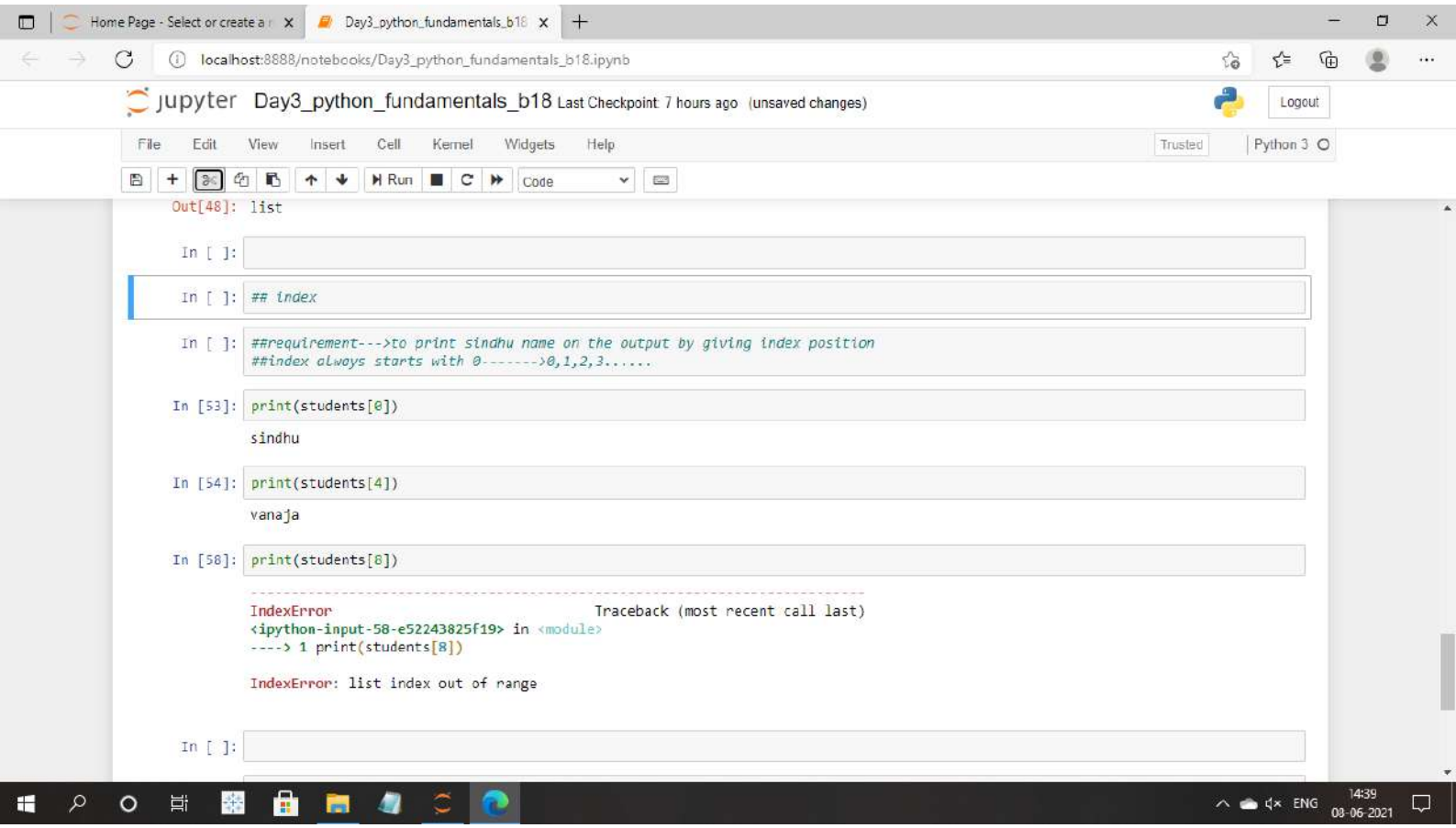
Python 3
Run
Code
introduction about list datatype
In [ ]:
list--------> group of elememts
list is always declare []
list is a mutable datatype
In [50]:
students=['sindhu','aasitha','venkat','madhu','vanaja','nikhil']
0 1 2 3 4 5
In [51]:
print(students)
['sindhu', 'aasitha', 'venkat', 'madhu', 'vanaja', 'nikhil']
In [52]:
print(students)
['sindhu', 'aasitha', 'venkat', 'madhu', 'vanaja', 'nikhil']
In [48]:
type(students)
Out[48]:
list
In [ ]:
In [ ]:
index
ENG
14:39
08-06-2021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Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3
Run
Code
Out[48]: list
In [ ]:
In [ ]: ## index
In [ ]: ##requirement--->to print sindhu name on the output by giving index position
##index always starts with 0------>0,1,2,3.....
In [53]: print(students[0])
sindhu
In [54]: print(students[4])
vanaja
In [58]: print(students[8])
IndexError Traceback (most recent call last)
<ipython-input-58-e52243825f19> in <module>
----> 1 print(students[8])
IndexError: list index out of range
In [ ]:
ENG
14:39
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Run Code

In [13]:
```
print("hii all \nstay home stay safe")
```
```
hii all
stay home stay safe
```

In [ ]:
```
## Adding of elements to list
### updating elememts to list
#### deleting elements to list
```

In [ ]:
```
## Adding of elements
```

In [14]:
```
students=['nagendra','aasitha','venkat','saiteja','sai','keerthi','vanaja']
```

In [15]:
```
print(students)
```
```
['nagendra', 'aasitha', 'venkat', 'saiteja', 'sai', 'keerthi', 'vanaja']
```

In [ ]:
```
append
add
insert
```

In [16]:
```
students.append('bhavani')              ## add element to the end of the list
```

In [17]:
```
print(students)
```
```
['nagendra', 'aasitha', 'venkat', 'saiteja', 'sai', 'keerthi', 'vanaja', 'bhavani']
```

In [18]:
```
students.insert(2,'swathi')                  ## add element in to 2nd index position
```

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Run Code

In [18]:
```
students.insert(2,'swathi')                    ## add element in to 2nd index position
```

In [19]:
```
print(students)
```
```
['nagendra', 'aasitha', 'swathi', 'venkat', 'saiteja', 'sai', 'keerthi', 'vanaja', 'bhavani']
```

In [ ]:

In [ ]:
```
## updating the elements
```

In [20]:
```
students[3]='charan'          ## request---->replace venkat with charan
```

In [21]:
```
print(students)
```
```
['nagendra', 'aasitha', 'swathi', 'charan', 'saiteja', 'sai', 'keerthi', 'vanaja', 'bhavani']
```

In [22]:
```
len(students)
```
Out[22]: 9

In [23]:
```
students[8]='raji'              ## replace bhavani with raji
```

In [24]:
```
print(students)
```
```
['nagendra', 'aasitha', 'swathi', 'charan', 'saiteja', 'sai', 'keerthi', 'vanaja', 'raji']
```

In [ ]:

In [ ]:
```
### delete the elements in our list
```

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Run Code

In [ ]:

In [ ]:
```
### delete the elements in our list
```

In [ ]:
```
delete
pop
```

In [25]:
```
print(students)
```
```
['nagendra', 'aasitha', 'swathi', 'charan', 'saiteja', 'sai', 'keerthi', 'vanaja', 'raji']
```

In [27]:
```
students.pop()            ## deafault last element will be deleted
```
Out[27]:
```
'vanaja'
```

In [28]:
```
print(students)
```
```
['nagendra', 'aasitha', 'swathi', 'charan', 'saiteja', 'sai', 'keerthi']
```

In [29]:
```
students.pop(2)
```
Out[29]:
```
'swathi'
```

In [30]:
```
print(students)
```
```
['nagendra', 'aasitha', 'charan', 'saiteja', 'sai', 'keerthi']
```

In [ ]:

In [ ]:
```
## organizing a list
```

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Run Code

In [ ]:
```
## organizing a list
```

In [ ]:
```
### requirement------->organize a list in alphabetical order
```

In [31]:
```
students.sort()
```

In [32]:
```
print(students)
```

```
['aasitha', 'charan', 'keerthi', 'nagendra', 'sai', 'saiteja']
```

In [33]:
```
example=['sai','aashitha','charan','hema','july','john','alia','anjali','babu','siva','ravi']
```

In [34]:
```
print(example)
```

```
['sai', 'aashitha', 'charan', 'hema', 'july', 'john', 'alia', 'anjali', 'babu', 'siva', 'ravi']
```

In [35]:
```
len(example)
```

Out[35]:
```
11
```

In [36]:
```
example.sort()
```

In [37]:
```
print(example)
```

```
['aashitha', 'alia', 'anjali', 'babu', 'charan', 'hema', 'john', 'july', 'ravi', 'sai', 'siva']
```

In [ ]:

In [ ]:
```
### reverse the list
```

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Run Code

In [ ]:
```
### reverse the list
```

In [38]:
```
print(students)
```
```
['aasitha', 'charan', 'keerthi', 'nagendra', 'sai', 'saiteja']
```

In [39]:
```
students.reverse()
```

In [40]:
```
print(students)
```
```
['saiteja', 'sai', 'nagendra', 'keerthi', 'charan', 'aasitha']
```

In [41]:
```
example.reverse()
```

In [42]:
```
print(example)
```
```
['siva', 'sai', 'ravi', 'july', 'john', 'hema', 'charan', 'babu', 'anjali', 'alia', 'aashitha']
```

In [ ]:

In [ ]:

In [ ]:
```
## copy of list
```

In [43]:
```
my_food=['biryani','puttu','choclate','icecream','rice','carrot']
```

In [44]:
```
print(my_food)
```
```
['biryani', 'puttu', 'choclate', 'icecream', 'rice', 'carrot']
```

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Run Code

In [ ]:
```
## copy of list
```

In [43]:
```
my_food=['biryani','puttu','choclate','icecream','rice','carrot']
```

In [44]:
```
print(my_food)
```

```
['biryani', 'puttu', 'choclate', 'icecream', 'rice', 'carrot']
```

In [45]:
```
friend_food=my_food[:]       ##syntax
```

In [46]:
```
print(friend_food)
```

```
['biryani', 'puttu', 'choclate', 'icecream', 'rice', 'carrot']
```

In [ ]:
```

```

In [ ]:
```
### negative index
```

In [47]:
```
students=['kavya','bhavana','kunal','jyothi','lahari','jayanth']

            0       1       2       3       4        5------------------->+ve index
            -6       - 5       -4       -3       -2         -1----------->-ve index
```

In [48]:
```
print(students)
```

```
['kavya', 'bhavana', 'kunal', 'jyothi', 'lahari', 'jayanth']
```

In [50]:
```
print(students[-4].upper())
```

```
KUNAL
```

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Run Code

In [50]:
```
print(students[-4].upper())
```

```
KUNAL
```

In [51]:
```
print(students[-7])
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-51-27e0f3331cac> in <module>
----> 1 print(students[-7])

IndexError: list index out of range
```

In [53]:
```
print(students[-3].title())
```

```
Jyothi
```

In [54]:
```
len(students)
```

Out[54]:
```
6
```

In [ ]:

In [ ]:
```
#### slicing of the list
```

In [ ]:
```
##requirement : create a team of 3 members
```

In [55]:
```
print(students[0:3])
```

```
['kavya', 'bhavana', 'kunal']
```

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Run Code

Out[54]: 6

In [ ]:

In [ ]:
```
#### slicing of the list
```

In [ ]:
```
##requirement : create a team of 3 members
```

In [55]:
```
print(students[0:3])
```
```
['kavya', 'bhavana', 'kunal']
```

In [56]:
```
print(students[1:5])
```
```
['bhavana', 'kunal', 'jyothi', 'lahari']
```

In [57]:
```
print(students[2:5])
```
```
['kunal', 'jyothi', 'lahari']
```

In [58]:
```
print(students[3:4])
```
```
['jyothi']
```

In [ ]:

In [ ]:
```
## looping statements------->for loop
```

In [59]:
```
mystudents=['sai','neeha','hari','siva','john']
```

In [60]:
```
print(mystudents)
```

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Run Code

In [ ]:

In [ ]:
```
## looping statements------->for loop
```

In [59]:
```
mystudents=['sai','neeha','hari','siva','john']
```

In [60]:
```
print(mystudents)
```

```
['sai', 'neeha', 'hari', 'siva', 'john']
```

In [62]:
```
for y in mystudents:
    print(y)
```

```
sai
neeha
hari
siva
john
```

In [63]:
```
print('here are the participants:')
for w in mystudents:
    print(w)
```

```
here are the participants:
sai
neeha
hari
siva
john
```

In [ ]:

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Run Code

In [1]:
```
print("hii all good morning")
```

```
hii all good morning


we will wait fo 4min
```

In [ ]:

Introduction about tuple datatype

In [ ]:

In [ ]:
```
tuple------------>collection of elements or items
```

In [ ]:
```
list                                    tuple
[]                                       ()
mutable datatype                         Immutable datatype
[1,9.8,'siri',4]                          (1,2,7)
                                           ('string')

    adding
    updating
    deleting                                we cant add new elements to tuple
```

In [ ]:

In [ ]:

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Run Code

In [ ]:

In [2]:
```
s=[5,8.8,'john',55]
```

In [3]:
```
print(s)
```
```
[5, 8.8, 'john', 55]
```

In [4]:
```
type(s)
```
Out[4]:
```
list
```

In [ ]:

In [ ]:
```
******** create a tuple
******** how to add elements
******** update the elements
******** deleting the elements
******** slicing of tuple
```

In [ ]:
```
## tuple is going to declare in---------------------->()
```

In [5]:
```
dimensions=(30,60)
```

In [6]:
```
type(dimensions)
```
Out[6]:
```
tuple
```

In [7]:
```
print(dimensions)
```

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Run Code

```
In [7]: print(dimensions)
```

```
(30, 60)
```

```
In [ ]: ## add a new elements
```

```
In [8]: dimensions[1]=400
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-8-b65ea2d347e1> in <module>
----> 1 dimensions[1]=400

TypeError: 'tuple' object does not support item assignment
```

```
In [9]: dimensions=(30,60,700,44,88)
```

```
In [10]: print(dimensions)
```

```
(30, 60, 700, 44, 88)
```

```
In [14]: print(dimensions[4])
```

```
88
```

```
In [15]: a=(1,6,8,4747,778,90,66,55)
         b=(55,88,45,98,34,86,57,23)
         c=a+b
```

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Run Code

In [14]:
```
print(dimensions[4])
```

```
88
```

In [15]:
```
a=(1,6,8,4747,778,90,66,55)
b=(55,88,45,98,34,86,57,23)
c=a+b
```

In [16]:
```
print(c)
```

```
(1, 6, 8, 4747, 778, 90, 66, 55, 55, 88, 45, 98, 34, 86, 57, 23)
```

In [ ]:
```
c=(2,66,99,67)------------------------------>tuple
c=()----------------------------------------->empty tuple
c=(6)---------------------------------------->it is not a tuple
c=(6,)--------------------------------------->tuple
```

In [ ]:
```

```

In [17]:
```
x=()
```

In [18]:
```
print(x)
```

```
()
```

In [19]:
```
type(x)
```

Out[19]:
```
tuple
```

In [20]:
```
s=(7)
```

In [21]:
```
print(s)
```

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Run Code

```
In [20]: s=(7)

In [21]: print(s)
         7

In [22]: type(s)
Out[22]: int

In [23]: s=(5,)

In [24]: print(s)
         (5,)

In [25]: type(s)
Out[25]: tuple

In [ ]:

In [ ]: ## updating

In [26]: c=(5,9,66,89)
         d=(4,7,7363,89)
         e=c+d

In [27]: print(e)
         (5, 9, 66, 89, 4, 7, 7363, 89)
```

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Run Code

In [ ]:

In [ ]: ## delete the elements

In [ ]:
```
pop
delete
remove
```

In [28]:
```
del dimensions
```

In [29]:
```
print(dimensions)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-29-8d01de2d54df> in <module>
----> 1 print(dimensions)

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

In [30]:
```
r=(66,78,46)
```

In [31]:
```
print(r)
```

```
(66, 78, 46)
```

In [32]:
```
del r
```

In [33]:
```
print(r)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
```

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Run Code

In [34]:
```
city=('hyd','bnglr','chennai','ongole','pune','mumbai')
```

In [35]:
```
print(city)
```
```
('hyd', 'bnglr', 'chennai', 'ongole', 'pune', 'mumbai')
```

In [36]:
```
type(city)
```
Out[36]:
```
tuple
```

In [37]:
```
mix_tuple=('delhi','bnglr','pune',2,8,9)
```

In [38]:
```
print(mix_tuple)
```
```
('delhi', 'bnglr', 'pune', 2, 8, 9)
```

In [39]:
```
type(mix_tuple)
```
Out[39]:
```
tuple
```

In [ ]:

In [ ]:
```
### slicing of tuple
```

In [ ]:
```
[:]                  [0:6]
```

In [40]:
```
c=(1,7,88,55,90,445,87,56,87,45,98,33,76,34)
   0 1  2  3  4  5   6  7  8  9  10 11 12 13------------------>index position
```

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Run Code

In [ ]:
```
### slicing of tuple
```

In [ ]:
```
[:]                  [0:6]
```

In [40]:
```
c=(1,7,88,55,90,445,87,56,87,45,98,33,76,34)
   0 1  2  3  4  5   6  7  8  9  10 11 12 13------------------>index position
```

In [41]:
```
print(c)
```

```
(1, 7, 88, 55, 90, 445, 87, 56, 87, 45, 98, 33, 76, 34)
```

In [43]:
```
c[0:5]                              starting index-n-1
```

Out[43]:
```
(1, 7, 88, 55, 90)
```

In [55]:
```
c[4:7]
```

Out[55]:
```
(90, 445, 87)
```

In [45]:
```
c[4:9]
```

Out[45]:
```
(90, 445, 87, 56, 87)
```

In [46]:
```
len(c)
```

Out[46]:
```
14
```

In [49]:
```
c[ :3]
```

Out[49]:
```
(1, 7, 88)
```

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Run Code

In [46]: len(c)

Out[46]: 14

In [49]:
```
c[ :3]
```

Out[49]: (1, 7, 88)

In [50]:
```
c[2: ]
```

Out[50]: (88, 55, 90, 445, 87, 56, 87, 45, 98, 33, 76, 34)

In [52]:
```
c[6: ]
```

Out[52]: (87, 56, 87, 45, 98, 33, 76, 34)

In [56]:
```
c[0:6,4:8]
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-56-eef40b4fc077> in <module>
----> 1 c[0:6,4:8]

TypeError: tuple indices must be integers or slices, not tuple
```

In [ ]:

In [61]:
```
s=(55,88,9,56,87,99)
    -6   -5  -4   -3   -2   -1
```

In [63]:
```
print(s[3])
```

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Run Code

```
TypeError                                 Traceback (most recent call last)
<ipython-input-56-eef40b4fc077> in <module>
----> 1 c[0:6,4:8]

TypeError: tuple indices must be integers or slices, not tuple
```

In [ ]:

In [61]:
```
s=(55,88,9,56,87,99)
    -6   -5  -4   -3   -2   -1
```

In [63]:
```
print(s[3])
```

```
56
```

In [1]:
```
name=input('please enter your name:')
print(f"\n welcomeback,good to have you on amazon,{name}")
```

```
please enter your name:sai

 welcomeback,good to have you on amazon,sai
```

In [ ]:

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Run Markdown

```
print("hii all good morning")
```

In [ ]:

User accepting input

In [ ]:

In [ ]:
```
Facebook:

user name:---------------------------->unique

full_name:------------------------------>

Dob------------------------------------->


password-------------------------------->highly protective
```

In [ ]:

In [ ]:
```
process to login: username and password---------------------->login-------------->database matches------->it give access to page

    it it is wrong----------------->incorrect password------------->pls try again
```

In [ ]:

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Run Markdown

In [ ]:

In [3]:
```
sms=input('tell me something and i will repeat it back for you:')
print(sms)
```

```
tell me something and i will repeat it back for you:good morning all
good morning all
```

In [ ]:

In [ ]:
```
## enhancement      hii lavanya,good to see you again on amazon
                   welcome back, again good to see you lavanya
```

In [7]:
```
name=input('please enter your name:')
print(f"\nwelcome back again good to see you on amazon,{name.upper()}")
```

```
please enter your name:rekha

welcome back again good to see you on amazon,REKHA
```

In [6]:
```
name=input('please enter your name:')
print(f"\nwelcome back again good to see you on amazon,{name.title()}")
```

```
please enter your name:sirisha

welcome back again good to see you on amazon,Sirisha
```

In [ ]:

Type *Markdown* and LaTeX: α^2

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Run Markdown

introduction about dictionary datatype

In [ ]:
```
Dictionary----------->Dict
```

In [ ]:
```
##Dict are used to store the values in key : value pairs
```

In [ ]:
```
*** it is going to declare in {}
```

In [ ]:
```
**** It is collection of elements in key:value pair and it doesnt allow duplicates
```

In [ ]:
```
key:value
```

In [ ]:
```
list--------------------------->
tuple---------------------------->
dict------------------------------>multiple elements--------------->key:value pairs
```

In [ ]:
```

```

In [ ]:
```
## facebook            name:'sirisha'   study:'btech'
```

In [ ]:
```
username------->'user1'
password-------->12345
first_name------->'abc'
last_name-------->'xyz'
dob-------------->12051999
mailid------------->abc@gmail.com
```

In [ ]:
```
keys---------->username,password,firstname,last_name,dob,mailid
values--------->user1,12345,abc,xyz,abc@gmail.com
```

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Run Markdown

```
password-------->12345
first_name------->'abc'
last_name-------->'xyz'
dob-------------->12051999
mailid----------->abc@gmail.com
```

In [ ]:
```
keys---------->username,password,firstname,last_name,dob,mailid
values--------->user1,12345,abc,xyz,abc@gmail.com
```

In [ ]:
```
```

In [8]:
```
s={'name':'sirisha','branch':'eee','rno':12345,}
```

In [ ]:
```
keys----->name,branch,rno
values---->sirisha,eee,12345
```

In [9]:
```
print(s)
```

```
{'name': 'sirisha', 'branch': 'eee', 'rno': 12345}
```

In [10]:
```
type(s)
```

Out[10]:
```
dict
```

In [ ]:
```
### adding
### updating
#### deleting
```

In [11]:
```
s['course']='b.tech'          ## adding new elements to our dict
```

In [12]:
```
print(s)
```

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Run Markdown

In [11]:
```
s['course']='b.tech'          ## adding new elements to our dict
```

In [12]:
```
print(s)
```
```
{'name': 'sirisha', 'branch': 'eee', 'rno': 12345, 'course': 'b.tech'}
```

In [13]:
```
s['score']=90
```

In [14]:
```
print(s)
```
```
{'name': 'sirisha', 'branch': 'eee', 'rno': 12345, 'course': 'b.tech', 'score': 90}
```

In [ ]:
```
#### updating dict
```

In [15]:
```
s['course']          ## acceessing the elements through keys
```
Out[15]:
```
'b.tech'
```

In [17]:
```
s['branch']
```
Out[17]:
```
'eee'
```

In [18]:
```
s['eee']             ## we cant access the elements by using values
```
```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-18-fb2bdc30189c> in <module>
----> 1 s['eee']

KeyError: 'eee'
```

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Run Markdown

```
KeyError: 'eee'
```

In [19]:
```
s['branch']='ece'
```

In [20]:
```
print(s)
```
```
{'name': 'sirisha', 'branch': 'ece', 'rno': 12345, 'course': 'b.tech', 'score': 90}
```

In [21]:
```
s['name']='aasitha'
```

In [22]:
```
print(s)
```
```
{'name': 'aasitha', 'branch': 'ece', 'rno': 12345, 'course': 'b.tech', 'score': 90}
```

In [23]:
```
s['course']='m.tech'
```

In [24]:
```
print(s)
```
```
{'name': 'aasitha', 'branch': 'ece', 'rno': 12345, 'course': 'm.tech', 'score': 90}
```

In [ ]:
```
### delete the dict
```

In [ ]:
```
del----------------------------->one or more elements
clear--------------------------->clear all the elements
```

In [25]:
```
del s
```

In [26]:
```
print(s)
```
```
---------------------------------------------------------------------------
```

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Run Markdown

In [ ]:
```
del----------------------------->one or more elements
clear--------------------------->clear all the elements
```

In [25]:
```
del s
```

In [26]:
```
print(s)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-26-0ff1b7208845> in <module>
----> 1 print(s)

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

In [27]:
```
x={'name':'sai','age':16,'rno':12345}
```

In [28]:
```
print(x)
```

```
{'name': 'sai', 'age': 16, 'rno': 12345}
```

In [29]:
```
g=x
```

In [30]:
```
print(g)
```

```
{'name': 'sai', 'age': 16, 'rno': 12345}
```

In [31]:
```
del x
```

In [33]:
```
print(x)
```

```
---------------------------------------------------------------------------
```

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Run Markdown

```
{'name': 'sai', 'age': 16, 'rno': 12345}
```

In [31]:
```
del x
```

In [33]:
```
print(x)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-33-fc17d851ef81> in <module>
----> 1 print(x)

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

In [34]:
```
g
```

Out[34]:
```
{'name': 'sai', 'age': 16, 'rno': 12345}
```

In [35]:
```
g.clear()
```

In [36]:
```
print(g)
```

```
{}
```

In [ ]:

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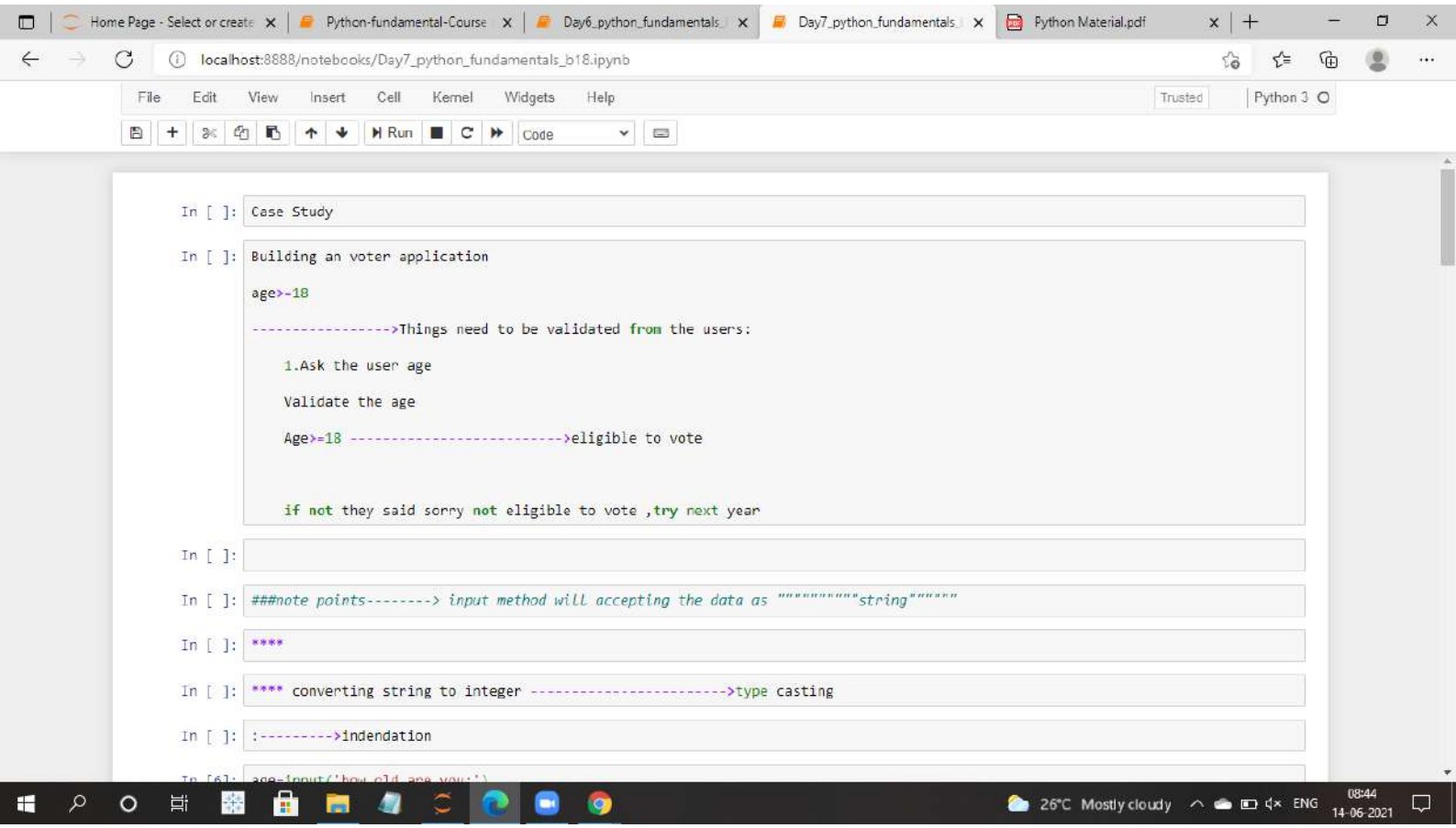
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Python 3
Run
Code
In [ ]: Case Study
In [ ]: Building an voter application
age>-18
----------->Things need to be validated from the users:
1.Ask the user age
Validate the age
Age>=18 ---------->eligible to vote
if not they said sorry not eligible to vote ,try next year
In [ ]:
In [ ]: ###note points--------> input method will accepting the data as """""""""string""""""
In [ ]: ****
In [ ]: **** converting string to integer ---------->type casting
In [ ]: :--------->indendation
In [6]: age=input('how old are you:')
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Run Code

In [ ]:
```
****
```

In [ ]:
```
**** converting string to integer ---------->type casting
```

In [ ]:
```
:--------->indendation
```

In [6]:
```
age=input('how old are you:')
if int(age)>18:
    print('you are eligible to vote')
else:
    print('sorry you are not eligible')
```

```
how old are you:21
you are eligible to vote
```

In [3]:
```
age=input('how old are you:')
if int(age)>18:
    print('you are eligible to vote')
else:
    print('sorry you are not eligible')
```

```
how old are you:14
sorry you are not eligible
```

In [ ]:
```

```

In [ ]:
```
##cars
```

In [7]:
```
cars=['audi','toyato','kia','bmw']
```

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Run Code

In [ ]:
```
##cars
```

In [7]:
```
cars=['audi','toyato','kia','bmw']
```

In [8]:
```
print(cars)
```

```
['audi', 'toyato', 'kia', 'bmw']
```

In [ ]:
```
### my requirement---------->to print bmw in capital letters remaining all in title method
```

In [14]:
```
for w in cars:

    if w=='bmw':
          print(w.upper())

    else:
        print(w.lower())
```

```
audi
toyato
kia
BMW
```

In [ ]:
```

```

In [ ]:
```
## printing a number it is going to show even or odd
```

In [23]:
```
num=int(input('enter the number i will tell the num type'))
if num%2==0:
    print('the number is even')
```

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Run Code

In [ ]:
```
## printing a number it is going to show even or odd
```

In [23]:
```
num=int(input('enter the number i will tell the num type'))
if num%2==0:
    print('the number is even')
else:
    print('it is a odd number')
```

```
enter the number i will tell the num type234568
the number is even
```

In [19]:
```
num=int(input('enter the number i will tell the num type'))
if num%2==0:
    print('the number is even')
else:
    print('it is a odd number')
```

```
enter the number i will tell the num type43
it is a odd number
```

In [ ]:
```
```

In [ ]:
```
### doing power operations          3*1
                                    3*2                                 2*1=1*2=2
                                                                        2*2=2*2=4
                                    3*3,4,5,6,7,8
```

In [29]:
```
for i in range(1,4):
    print('2*',i,'=',i*2)
```

```
2* 1 = 2
2* 2 = 4
2* 3 = 6
```

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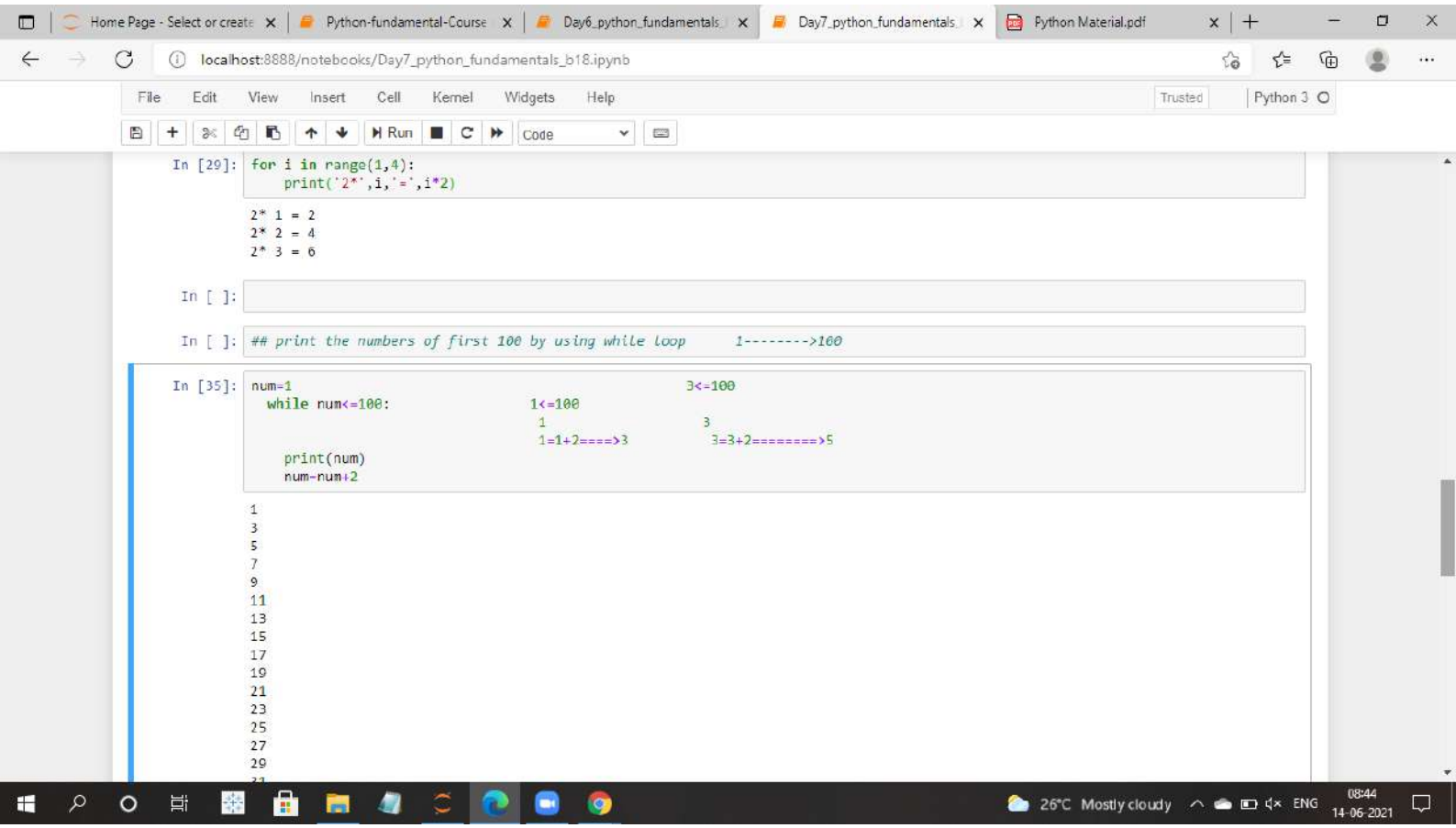
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Python 3
Run
Code
In [29]:
for i in range(1,4):
print('2*',i,'=',i*2)
2* 1 = 2
2* 2 = 4
2* 3 = 6
In [ ]:
In [ ]:
print the numbers of first 100 by using while loop 1-------->100
In [35]:
num=1
while num<=100:
print(num)
num=num+2
1<=100
1
1=1+2====>3
3<=100
3
3=3+2========>5
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
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Run Code

Sets

In [ ]:
```
set----------------->collection of multiple elements of different datatype
```

In [ ]:
```
****set is declared in {}
```

In [ ]:
```
## sets doesnt allow or avoid duplicates
```

In [1]:
```
s={4,'delhi',9.8,55}
```

In [2]:
```
print(s)
```

```
{9.8, 'delhi', 4, 55}
```

In [3]:
```
type(s)
```

Out[3]:
```
set
```

In [6]:
```
u={2,2,2,2,2,2}
```

In [7]:
```
print(u)
```

```
{2}
```

In [8]:
```
v={23,23}
```

In [9]:
```
print(v)
```

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In [8]:
```
v={23,23}
```

In [9]:
```
print(v)
```
```
{23}
```

In [ ]:
```
##adding
##udating
##deleting
```

In [10]:
```
g={5}
```

In [11]:
```
print(g)
```
```
{5}
```

In [12]:
```
z={1,77,89,665,67,98,78,54,65,34,54,23,77,99,88,65,56,47}
```

In [13]:
```
print(z)
```
```
{1, 98, 67, 65, 34, 99, 77, 78, 47, 665, 54, 23, 88, 89, 56}
```

In [14]:
```
len(z)
```
Out[14]:
```
15
```

In [ ]:
```
## adding elements to set
```

In [15]:
```
z.add(6)
```

In [16]:
```
print(z)
```

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Out[14]: 15

In [ ]:
```
## adding elements to set
```

In [15]:
```
z.add(6)
```

In [16]:
```
print(z)
```
```
{1, 98, 67, 65, 34, 99, 6, 77, 78, 47, 665, 54, 23, 88, 89, 56}
```

In [17]:
```
z.add(1999)
```

In [18]:
```
print(z)
```
```
{1, 98, 67, 65, 34, 99, 6, 77, 78, 47, 1999, 665, 54, 23, 88, 89, 56}
```

In [19]:
```
len(z)
```

Out[19]: 17

In [ ]:
```
## update elements in set
```

In [20]:
```
t={22,4,5,66,77,88}
```

In [21]:
```
print(t)
```
```
{66, 4, 5, 77, 22, 88}
```

In [22]:
```
z.update(t)
```

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Run Code

{66, 4, 5, 77, 22, 88}

In [22]:
```
z.update(t)
```

In [23]:
```
print(z)
```
```
{1, 65, 67, 66, 4, 6, 5, 77, 78, 1999, 22, 23, 88, 665, 89, 98, 34, 99, 47, 54, 56}
```

In [30]:
```
t.update(z)
```

In [31]:
```
print(t)
```
```
{1, 66, 67, 4, 5, 6, 77, 78, 1999, 22, 23, 88, 665, 89, 98, 34, 99, 47, 54, 56}
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:
```
##delete elements in set
```

In [ ]:
```
pop
delete
remove
```

In [25]:
```
z.remove(65)
```

In [26]:
```
print(z)
```

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Run Code

In [ ]:
```
##delete elements in set
```

In [ ]:
```
pop
delete
remove
```

In [25]:
```
z.remove(65)
```

In [26]:
```
print(z)
```

```
{1, 67, 66, 4, 6, 5, 77, 78, 1999, 22, 23, 88, 665, 89, 98, 34, 99, 47, 54, 56}
```

In [27]:
```
len(z)
```

Out[27]:
```
20
```

In [28]:
```
t.remove(22)
```

```
print(t)
```

In [ ]:

Introduction to functions

In [ ]:
```
Function-------------->To execute a specific task
```

In [ ]:
```
1.Code reusability
2.Easily understandable
3.easy debugging--------------->easily find the errors and rectify
```

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Run Code

Introduction to functions

In [ ]:
```
Function-------------->To execute a specific task
```

In [ ]:
```
1.Code reusability
2.Easily understandable
3.easy debugging--------------->easily find the errors and rectify
```

In [ ]:
```
Function declaration--------------->avoid in python
                                    main()

Function defination

Function call
```

In [ ]:
```
### def---------------------->define keyword
```

In [ ]:
```
### defining a function and calling a function
```

In [32]:
```
def greet():

    print("hello all how are you")
```

In [33]:
```
greet()
```

```
hello all how are you
```

In [ ]:
```
## enhancement of code
```

In [37]:
```
def greet_username(user):##passing arguments
```

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Run Code

In [ ]:
```
## enhancement of code
```

In [37]:
```
def greet_username(user):##passing arguments
    "creating a function for gretting the students"
    print(f"hello good to have you,{user.upper()}")
```

In [38]:
```
greet_username('aswartha')
```
```
hello good to have you,ASWARTHA
```

In [39]:
```
greet_username('sirisha')
```
```
hello good to have you,SIRISHA
```

In [40]:
```
greet_username('aashitha')
```
```
hello good to have you,AASHITHA
```

In [41]:
```
greet_username('rekha')
```
```
hello good to have you,REKHA
```

In [42]:
```
greet_username('venkat')
```
```
hello good to have you,VENKAT
```

In [43]:
```
greet_username('lavanya')
```
```
hello good to have you,LAVANYA
```

In [44]:
```
greet_username('543')
```

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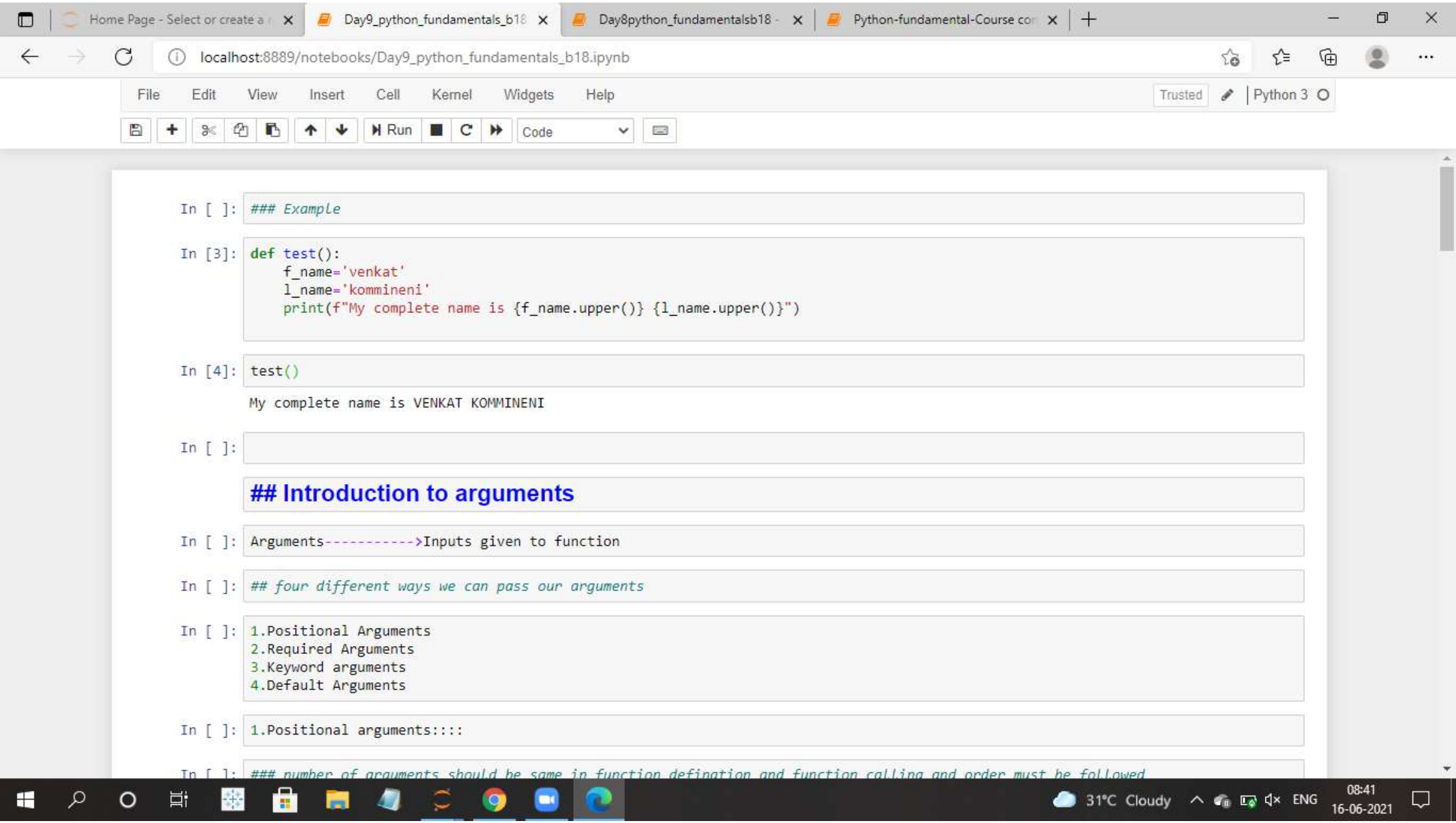
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Python 3
Run
Code
In [ ]: ### Example
In [3]: def test():
f_name='venkat'
l_name='kommineni'
print(f"My complete name is {f_name.upper()} {l_name.upper()}")
In [4]: test()
My complete name is VENKAT KOMMINENI
In [ ]:
Introduction to arguments
In [ ]: Arguments----------->Inputs given to function
In [ ]: ## four different ways we can pass our arguments
In [ ]: 1.Positional Arguments
2.Required Arguments
3.Keyword arguments
4.Default Arguments
In [ ]: 1.Positional arguments::::
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Run Code

In [ ]:
```
1.Positional arguments::::
```

In [ ]:
```
### number of arguments should be same in function defination and function calling and order must be followed
```

In [6]:
```
def display(a,b):
    print(a,b)
    display(a=30,b=40)
```

In [7]:
```
(30,40)
```

Out[7]:
```
(30, 40)
```

In [ ]:
```
i have a dog
my dog name is bruno
```

In [8]:
```
def describe_pets(animal_type,pet_name):
    print(f"\ni have a {animal_type}")
    print(f"my {animal_type}'s name is {pet_name.upper()}")
```

In [9]:
```
describe_pets('cat','kitty')  ## meaningfull execution when we pass arguments in correct order
```

```
i have a cat
my cat's name is KITTY
```

In [10]:
```
describe_pets('bruno','dog')    ### meaningless execution when we pass arguments in wrong order
```

```
i have a bruno
my bruno's name is DOG
```

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Run Code

In [ ]:
```
Basic knowledge c,python,java
```

In [ ]:
```
30
```

In [ ]:
```
1.any one of programming---------->c,python,java
2.Database------------------------->sql
```

In [ ]:
```
##sanfaundary
##w3 schools
## java point

## india bix
freshersworld.com
```

In [ ]:
```

```

In [ ]:
```
2.keyword arguments
```

In [ ]:
```
## the initialization of arguments which are declared in the function call will map with aarguments in function defination
```

In [ ]:
```
### order/position doesnt follow
```

In [11]:
```
def describe_pets(animal_type,pet_name):
    print(f"\ni have a {animal_type}")
    print(f"my {animal_type}'s name is {pet_name.upper()}")
```

In [12]:
```
describe_pets(pet_name='snowball',animal_type='dog')
```

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Run Code

```
    print(f"my {animal_type}'s name is {pet_name.upper()}")
```

In [12]:
```
describe_pets(pet_name='snowball',animal_type='dog')
```

```
i have a dog
my dog's name is SNOWBALL
```

In [ ]:

In [ ]:
```
3.Default Arguments
```

In [ ]:
```
### number of arguments need not to be matched with function call and function defination
```

In [21]:
```
def describe_pets(animal_type,pet_name='xyz'):
    print(f"\ni have a {animal_type}")
    print(f"my {animal_type}'s name is {pet_name.upper()}")
```

In [22]:
```
describe_pets('dog')
```

```
i have a dog
my dog's name is XYZ
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run | Code

In [ ]:
```
## making of sandwich using functions
```

In [6]:
```
def make_sandwich(item1,item2,item3):
    print('sandwich is preapring for you')
    print(f"adding {item1} to your sandwich")
    print(f"adding {item2} to your sandwich")
    print(f"adding {item3} to your sandwich")
    print('your sandwich is preapred /n')
```

In [7]:
```
make_sandwich('cheese','salt','chicken')
make_sandwich('butter','onion','honey')
make_sandwich('almoand','egg','bread')
```

```
sandwich is preapring for you
adding cheese to your sandwich
adding salt to your sandwich
adding chicken to your sandwich
your sandwich is preapred /n
sandwich is preapring for you
adding butter to your sandwich
adding onion to your sandwich
adding honey to your sandwich
your sandwich is preapred /n
sandwich is preapring for you
adding almoand to your sandwich
adding egg to your sandwich
adding bread to your sandwich
your sandwich is preapred /n
```

In [ ]:

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Run Code

In [ ]:

In [ ]: Arbitary arguments

In [14]:
```
def greet(*msg):
    for m in msg:
        print(m)
```

In [15]:
```
greet('hello','all','how','are','u','hope','all','doing','good')
```

```
hello
all
how
are
u
hope
all
doing
good
```

In [ ]:

classes

In [ ]: oops---------->object oriented programming system

In [ ]: class is nothing but a blue print of set of instructions which is to be followed and executed

In [ ]:
```
## Write a code for palindrom or not
```

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Run Code

classes

In [ ]:
```
oops------------->object oriented programming system
```

In [ ]:
```
class is nothing but a blue print of set of instructions which is to be followed and executed
```

In [ ]:
```
## Write a code for palindrom or not
```

In [ ]:
```
'madam' reverse  madam
a,b
a=60,b=9
a+b
c
```

In [ ]:
```
class ------------------------------------------------------>1.data/attributes/variables
                                                             2.functions
```

In [ ]:
```
## how to create a class

class classname():
    data
    function
```

In [ ]:
```
object: Accessing the data and function
    object_name=class_name()
```

In [17]:
```
class example():============================>creating a class
    x=5
    y=6
```

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Run | Code

In [17]:
```
class example():==========================>creating a class
    x=5
    y=6
```

In [23]:
```
p=example()==============================>object creation here p is our object,examle is our classname
```

In [19]:
```
p.x
```

Out[19]: 5

In [20]:
```
p.y
```

Out[20]: 6

In [ ]:
```
## another way
```

In [21]:
```
print(p.x)
```

5

In [22]:
```
print(p.y)
```

6

In [ ]:

In [ ]:
```
Example2:
```

In [ ]:
```
self------------------------>A temporary placeholder
```

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Run Code

In [ ]:
```
Example2:
```

In [ ]:
```
self------------------------>A temporary placeholder
```

In [28]:
```
class fruits:
    def mango(self):
        print('it is yellow')
    def strawberry(self):
        print('it is red')
```

In [29]:
```
obj=fruits()======================>object creation
```

In [30]:
```
obj.mango()
```

```
it is yellow
```

In [31]:
```
obj.strawberry()
```

```
it is red
```

In [32]:
```
obj.mango()
obj.strawberry()
```

```
it is yellow
it is red
```

In [ ]:

In [ ]:
```
Example3:
```

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Run Code

In [ ]:
```
Example3:
```

In [33]:
```
class student:
    rno=123
    name="abc"
    branch="ece"
    def show(self):
        print("hii how are you")
    def display(self):
        print("good to see you")
```

In [34]:
```
s1=student()
```

In [35]:
```
s1.rno
```

Out[35]: 123

In [36]:
```
s1.name
```

Out[36]: 'abc'

In [37]:
```
s1.branch
```

Out[37]: 'ece'

In [38]:
```
s1.rno
s1.branch
s1.name
```

Out[38]: 'abc'

In [39]:
```
s1.show()
```

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Run Code

Out[37]: 'ece'

In [38]:
```
s1.rno
s1.branch
s1.name
```

Out[38]: 'abc'

In [39]:
```
s1.show()
```

```
hii how are you
```

In [40]:
```
s1.display()
```

```
good to see you
```

In [41]:
```
s1.show()
s1.display()
```

```
hii how are you
good to see you
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [1]:
```
print("pls try to get vaccinated ")
```
```
pls try to get vaccinated
```

In [ ]:
```
Example--->
```

In [ ]:
```
createname,displayed,greet
```

In [4]:
```
class name:
    def createname(self,name):
        self.name=name
    def display(self):
        return self.name
    def greeting(self):
        print(f"hello how are you,{self.name}")
```

In [5]:
```
pobj=name()
```

In [6]:
```
pobj.createname('sirisha')
```

In [8]:
```
pobj.display()
```
Out[8]:
```
'sirisha'
```

In [10]:
```
pobj.greeting()
```
```
hello how are you,sirisha
```

In [ ]:

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Run Code

```
hello how are you,sirisha
```

In [ ]:

In [11]:
```
pobj.createname('aasitha')
```

In [12]:
```
pobj.display()
```

Out[12]:
```
'aasitha'
```

In [13]:
```
pobj.greeting()
```

```
hello how are you,aasitha
```

In [ ]:

In [ ]:
```
Example--
```

In [14]:
```
name='lavanya'
```

In [15]:
```
print(name)
```

```
lavanya
```

In [16]:
```
my_string='hello world'
```

In [17]:
```
print(my_string)
```

```
hello world
```

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Run Code

```
hello world
```

In [18]:
```
a=7
b=6
```

In [19]:
```
print(a+b)
```

```
13
```

In [20]:
```
print(a-b)
```

```
1
```

In [21]:
```
print(a*b)
```

```
42
```

In [ ]:
```
Example::
```

In [22]:
```
class example:
    eyes='blue'
    age=22
    def this(self):
        print('he is my brother')
    def show(self):
        print('he is studying inter')
```

In [23]:
```
obj=example()
```

In [24]:
```
obj.eyes
```

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Run Code

```
        print('he is my brother')
    def show(self):
        print('he is studying inter')
```

In [23]:
```
obj=example()
```

In [24]:
```
obj.eyes
```

Out[24]: 'blue'

In [25]:
```
obj.age
```

Out[25]: 22

In [26]:
```
obj.this()
```

```
he is my brother
```

In [27]:
```
obj.show()
```

```
he is studying inter
```

In [ ]:

In [ ]:
```
## OOps
```

In [ ]:
```
1.Inheritence------>Aquring the properties from parentclass to childclass
```

In [35]:
```
class boss:
    gm='sai'==================================>parent class
    manager='sirisha'
```

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Run Code

In [ ]:
```
## OOps
```

In [ ]:
```
1.Inheritence------>Aquring the properties from parentclass to childclass
```

In [35]:
```
class boss:
    gm='sai'==================================>parent class
    manager='sirisha'
class management(boss):=======================>passing parentclass
    ceo='venkat'==============================>childclass
    pass
```

In [36]:
```
abc=boss()==============================>Object creation for parent clas
```

In [37]:
```
abc.gm
```

Out[37]:
```
'sai'
```

In [38]:
```
abc.manager
```

Out[38]:
```
'sirisha'
```

In [39]:
```
xyz=management()============================>object creation for child class
```

In [40]:
```
xyz.ceo
```

Out[40]:
```
'venkat'
```

In [41]:
```
xyz.gm
```

Out[41]:
```
'sai'
```

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Run Code

Out[41]: 'sai'

In [42]:
```
xyz.manager
```

Out[42]: 'sirisha'

In [43]:
```
abc.ceo
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-43-09f68e8fd5a7> in <module>
----> 1 abc.ceo

AttributeError: 'boss' object has no attribute 'ceo'
```

In [ ]:

In [ ]:
```
Example
```

In [75]:
```
class parent:
    a=20
    b=50
    def show(self):
        print('this is parent class')
class child(parent):
    c=60
    d=55
    def display(self):
        print('this is child class')
```

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Run Code

In [ ]:
```
Example
```

In [75]:
```
class parent:
    a=20
    b=50
    def show(self):
        print('this is parent class')
class child(parent):
    c=60
    d=55
    def display(self):
        print('this is child class')
```

In [76]:
```
pobj=parent()
```

In [77]:
```
pobj.a
```

Out[77]: 20

In [78]:
```
pobj.b
```

Out[78]: 50

In [79]:
```
pobj.show()
```

```
this is parent class
```

In [80]:
```
cobj=child()
```

In [81]:
```
cobj.c
```

Out[81]: 60

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Run Code

```
In [79]: pobj.show()
```

```
this is parent class
```

```
In [80]: cobj=child()
```

```
In [81]: cobj.c
```

```
Out[81]: 60
```

```
In [82]: cobj.d
```

```
Out[82]: 55
```

```
In [83]: cobj.display()
```

```
this is child class
```

```
In [62]: cobj.a
```

```
Out[62]: 20
```

```
In [63]: cobj.b
```

```
Out[63]: 50
```

```
In [64]: cobj.show()
```

```
this is parent class
```

```
In [65]: pobj.c
```

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Run Code

In [82]:
```
cobj.d
```

Out[82]: 55

In [83]:
```
cobj.display()
```

```
this is child class
```

In [62]:
```
cobj.a
```

Out[62]: 20

In [63]:
```
cobj.b
```

Out[63]: 50

In [64]:
```
cobj.show()
```

```
this is parent class
```

In [65]:
```
pobj.c
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-65-a98dd1c5da84> in <module>
----> 1 pobj.c

AttributeError: 'parent' object has no attribute 'c'
```

In [ ]:

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Trusted | Python 3

Run | Code

In [1]:
```
print("hello all good morning")
```
```
hello all good morning
```

In [ ]:
```
Example:
```

In [4]:
```
class parent:
    var1='i am john'
    var2='i am sid'
```

In [9]:
```
class child(parent):
    pass
```

In [17]:
```
object=parent()##object creation for parent class
```

In [18]:
```
object.var1
```
Out[18]:
```
'i am john'
```

In [19]:
```
object.var2
```
Out[19]:
```
'i am sid'
```

In [14]:
```
cobj=child()##object creation for child class
```

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Trusted | Python 3

Run | Code

In [19]:
```
object.var2
```
Out[19]: 'i am sid'

In [14]:
```
cobj=child()##object creation for child class
```

In [15]:
```
cobj.var1
```
Out[15]: 'i am john'

In [16]:
```
cobj.var2
```
Out[16]: 'i am sid'

In [ ]:

constructor

In [ ]:
```
*** It is a special method also called as magical method used for initalizing the data instantaneously
```

In [ ]:
```
__init__    __del__
```

In [ ]:
```
Example1
```

In [ ]:
```
name,age,height,rank,   sai 21 6
```

In [20]:
```
class student:
    def __init__(self,name,age,height):
        self.name=name
```

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Trusted | Python 3

Run | Code

In [20]:
```
class student:
    def __init__(self,name,age,height):
        self.name=name
        self.age=age
        self.height=height
        print("he is our student")
    def rank(self):
        print(f"{self.name} got first rank")
    def show(self):
        print(f"his age is {self.age} and his height is {self.height}")
```

In [22]:
```
abc=student('sai',22,5)
```

```
he is our student
```

In [24]:
```
abc.rank()
```

```
sai got first rank
```

In [25]:
```
abc.show()
```

```
his age is 22 and his height is 5
```

In [26]:
```
abc=student('john',15,6)
```

```
he is our student
```

In [27]:
```
abc.rank()
```

```
john got first rank
```

In [28]:
```
abc.show()
```

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```
john got first rank
```

In [28]:
```
abc.show()
```

```
his age is 15 and his height is 6
```

In [29]:
```
abc=student('chintu',10,4)
```

```
he is our student
```

In [30]:
```
abc.rank()
```

```
chintu got first rank
```

In [31]:
```
abc.show()
```

```
his age is 10 and his height is 4
```

In [ ]:
```

```

In [32]:
```
class student:
    def __del__(self,name,age,height):
        self.name=name
        self.age=age
        self.height=height
        print("he is our student")
    def rank(self):
        print(f"{self.name} got first rank")
    def show(self):
        print(f"his age is {self.age} and his height is {self.height}")
```

In [33]:
```
xyz=student('sai',22,6)
```

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Run Code

In [32]:
```
class student:
    def __del__(self,name,age,height):
        self.name=name
        self.age=age
        self.height=height
        print("he is our student")
    def rank(self):
        print(f"{self.name} got first rank")
    def show(self):
        print(f"his age is {self.age} and his height is {self.height}")
```

In [33]:
```
xyz=student('sai',22,6)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-33-768d6c3f0686> in <module>
----> 1 xyz=student('sai',22,6)

TypeError: student() takes no arguments
```

In [ ]:

In [ ]:

In [ ]:
```
Example
```

In [34]:
```
class person:
    def __init__(self,name,age):
        self.name=name
        self.age=age
    def display(self):
```

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Run | Code

In [ ]:
```
Example
```

In [34]:
```
class person:
    def __init__(self,name,age):
        self.name=name
        self.age=age
    def display(self):
        print("hii this is "+self.name)
```

In [35]:
```
p=person('john',21)
```

In [36]:
```
p.name
```

Out[36]: 'john'

In [37]:
```
p.age
```

Out[37]: 21

In [38]:
```
p.display()
```

```
hii this is john
```

In [39]:
```
p=person('sid',21)
```

In [40]:
```
p.name
```

Out[40]: 'sid'

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Run | Code

In [ ]:

In [ ]: Example

In [ ]: ### Dog class

In [42]:
```
class Dog:
    def __init__(self,name,age):
        self.name=name
        self.age=age
        print('this correct')
    def sit(self):
        print(f"{self.name} is now sitting" )
    def jump(self):
        print(f"{self.name} is jumping")
    def rollover(self):
        print(f"{self.name} is rollover")
```

In [43]:
```
object=Dog('kitty',5)
```

```
this correct
```

In [44]:
```
object.sit()
```

```
kitty is now sitting
```

In [45]:
```
object.jump()
```

```
kitty is jumping
```

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Run Code

```
kitty is jumping
```

In [46]:
```
object.rollover()
```

```
kitty is rollover
```

In [47]:
```
class Dog:
    def __del__(self,name,age):
        self.name=name
        self.age=age
        print('this correct')
    def sit(self):
        print(f"{self.name} is now sitting" )
    def jump(self):
        print(f"{self.name} is jumping")
    def rollover(self):
        print(f"{self.name} is rollover")
```

In [48]:
```
abc=Dog('bruno',6)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-48-2700fe46ba0e> in <module>
----> 1 abc=Dog('bruno',6)

TypeError: Dog() takes no arguments
```

In [ ]:

In [ ]:

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Run Code

In [1]:
```
print("hii all good morning")
```
```
hii all good morning
```

In [ ]:

File handling

In [ ]:
```
1.read--------->"r"
2.write-------->"w"
3.append-------->"a"
```

In [ ]:

In [ ]:
```
Request---->reading a textfile
```

In [2]:
```
with open('pythonex.txt') as file_object:
    contents=file_object.read()
    print(contents)
```
```
abcdefghijklmn
123456789
lavanya
sirisha
rekha
vanja
aasitha
```

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Run Code

In [ ]:
```
another syntax to read a text file
```

In [10]:
```
s=open('pythonex.txt',"r")
print(s.read())
```

```
abcdefghijklmn
123456789
lavanya
sirisha
rekha
vanja
aasitha
```

In [8]:
```
with open('wave2.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
1.stay home stay safe
2.wear mask
3.wash hands
4.keep a safe distance
5.get vaccinated
6.sick?call the helpline
```

In [ ]:
```

```

In [ ]:
```
request--->write a data to text file
```

In [12]:
```
with open('wave2.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

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Run Code

In [ ]:

In [ ]:
```
request--->write a data to text file
```

In [12]:
```
with open('wave2.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
1.stay home stay safe
2.wear mask
3.wash hands
4.keep a safe distance
5.get vaccinated
6.sick?call the helpline
```

In [13]:
```
filename='wave2.txt'
with open(filename,'w') as file_object:
    file_object.write("helpline number +91878654654")
```

In [14]:
```
with open('wave2.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
helpline number +91878654654
```

In [ ]:

In [ ]:

In [15]:
```
with open('pythonex.txt') as file_object:
```

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Run Code

In [ ]:

In [15]:
```
with open('pythonex.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
abcdefghijklmn
123456789
lavanya
sirisha
rekha
vanja
aasitha
```

In [16]:
```
filename='pythonex.txt'
with open(filename,'w') as file_object:
    file_object.write("these are my friends")
```

In [17]:
```
with open('pythonex.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
these are my friends
```

In [ ]:

In [ ]:
```
## Append
```

In [ ]:
```
request-->appending the data to a text file
```

In [24]:
```
filename='pythonex.txt'
```

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Run Code

```
    print(contents)
```

```
these are my friends
```

In [ ]:

In [ ]:
```
## Append
```

In [ ]:
```
request-->appending the data to a text file
```

In [24]:
```
filename='pythonex.txt'
with open(filename,'a') as file_object:
    file_object.write('we all know each other\n\t')
    file_object.write('these are my friends\n\t')
```

In [25]:
```
with open('pythonex.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
these are my friendswe all know each otherwe all know each other
these are my friends
we all know each other
        these are my friends
```

In [ ]:

In [ ]:

In [26]:
```
filename='wave2.txt'
with open(filename,'a') as file_object:
```

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Run Code

```
these are my friendswe all know each otherwe all know each other
these are my friends
we all know each other
        these are my friends
```

In [ ]:

In [ ]:

In [26]:
```
filename='wave2.txt'
with open(filename,'a') as file_object:
    file_object.write('stayhome staysafe\n\t')
```

In [28]:
```
with open('wave2.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
helpline number +91878654654we all know each otherstayhome staysafe
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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Run Code

In [1]:
```
print("hii all good morning")
```
```
hii all good morning
```

In [ ]:

Exception handling

In [ ]:

In [ ]:
```
Req:
```

In [ ]:
```
1.zerodivisionerror
2.filenotfounderror
```

In [ ]:
```
1.Zero Division Error
```

In [4]:
```
0/77
```
Out[4]:
```
0.0
```

In [5]:
```
77/0
```
```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-5-73d1c1634534> in <module>
----> 1 77/0
```

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Run Code

Out[4]: 0.0

In [5]:
```
77/0
```

```
---------------------------------------------------------------------------
ZeroDivisionError                         Traceback (most recent call last)
<ipython-input-5-73d1c1634534> in <module>
----> 1 77/0

ZeroDivisionError: division by zero
```

In [ ]:

In [56]:
```
try:
    print(100/0)
except:
    print("please dont try to divide with zero")
```

```
please dont try to divide with zero
```

In [ ]:

In [15]:
```
x=55
y=0
```

In [16]:
```
try:
    print(x/y)
except:
    print('it is not possible ')
```

```
it is not possible
```

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Run Code

In [ ]:

In [ ]:
```
2.File not found error
```

In [17]:
```
filename="college.txt"
with open('college.txt') as file_object:
    contents=file_object.read()
    print(contents)
```

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
<ipython-input-17-df9bf4dd02ed> in <module>
      1 filename="college.txt"
----> 2 with open('college.txt') as file_object:
      3     contents=file_object.read()
      4     print(contents)

FileNotFoundError: [Errno 2] No such file or directory: 'college.txt'
```

In [ ]:

In [18]:
```
try:
    with open('college.txt') as file_object:
        contents=file_object.read()
        print(contents)
except:
    print('the given file is not there')
```

```
the given file is not there
```

In [ ]:

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Run Code

```
the given file is not there
```

In [ ]:

In [19]:
```
try:
    with open('wave2.txt') as file_object:
        contents=file_object.read()
        print(contents)
except:
    print('the given file is not there')
```

```
helpline number +91878654654we all know each otherstayhome staysafe
```

In [22]:
```
try:
    with open('pythonex.txt') as file_object:
        contents=file_object.read()
        print(contents)
except:
    print('the given file is not there')
```

```
these are my friendswe all know each otherwe all know each other
these are my friends
we all know each other
        these are my friends
```

In [ ]:

In [ ]:
```
polymorphism
```

In [ ]:
```
1 compiletime polymorphism        >method overloading        >not exist        >default arguments
```

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Run Code

In [ ]:
```
polymorphism
```

In [ ]:
```
1.compiletime polymorphism----------->method overloading----------->not exist-------->default arguments
2.runtime polymorphism--------------->method overwriting
```

In [ ]:
```
```

In [ ]:
```
add(a=30,b=40)
print(a+b)
```

In [ ]:
```
a=50,b=60
```

In [ ]:
```
```

In [43]:
```
class demo:
    def add(self,a=20,b=400,c=300):
        print(a+b+c)
```

In [44]:
```
obj=demo()
```

In [39]:
```
obj.add(100,200,300)
obj.add(100,200,300)
obj.add(100,250,400)
```

```
600
600
750
```

In [35]:
```
obj.add(100,200,300)
```

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Run Code

```
750
```

In [35]:
```
obj.add(100,200,300)
```

```
600
```

In [40]:
```
obj.add(50,399)
```

```
749
```

In [41]:
```
obj.add(100)
```

```
800
```

In [45]:
```
obj.add()
```

```
720
```

In [ ]:

In [ ]:
```
## over riding
```

In [ ]:

In [46]:
```
class parent:
    def name(self):
        print('sai')
class child:
    def name(self):
        print('sirisha')
```

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Run Code

In [46]:
```
class parent:
    def name(self):
        print('sai')
class child:
    def name(self):
        print('sirisha')
```

In [47]:
```
c=child()
```

In [49]:
```
c.name()
```

```
sirisha
```

In [ ]:

In [50]:
```
class parent:
    def transport(self):
        print('bike')
class child:
    def transport(self):
        print('cycle')
```

In [51]:
```
obj=child()
```

In [52]:
```
obj.transport()
```

```
cycle
```

In [ ]:
```
filter,mapping,lamda expressions
```

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Run Code

In [ ]:
```
filter,mapping,lamda expressions
```

In [ ]:

In [ ]:
```
## Advance python
```

In [ ]:
```
1.Numpy---------->numerical calculations
2.pandas--------->data manupalation
3.Matplotlib---->data visulization
4.openpxyl------->excel data reading


oops concepts:
    inheritence
2.------>projects in python
```

In [ ]:

In [ ]:
```
#Na
```

In [ ]:

In [ ]:

In [ ]:

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Kernel starting, please wait... Trusted Python 3

Run Code

In [1]:
```
print("hii all good morning")
```
```
hii all good morning
```

In [ ]:
```
### split()

## eval


## filter


## Lambda


## map
```

In [ ]:

In [8]:
```
num=input('enter a number')
```
```
enter a number9.778
```

In [9]:
```
type(num)
```
Out[9]:
```
str
```

In [ ]:
```
str-int      int-str  int-float
```

In [ ]:

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Run Code

In [6]:
```
num=eval(input("enter a number:"))
```
```
enter a number:9.8887
```

In [7]:
```
type(num)
```
Out[7]:
```
float
```

In [ ]:

In [ ]:

In [ ]:
```
## split()--------->it is going to split a string into list
```

In [10]:
```
text="hii all how are you"
```

In [11]:
```
x=text.split()
```

In [12]:
```
print(x)
```
```
['hii', 'all', 'how', 'are', 'you']
```

In [13]:
```
type(x)
```
Out[13]:
```
list
```

In [ ]:

In [14]:
```
data=input().split()
```

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Run Code

In [6]:
```
num=eval(input("enter a number:"))
```
```
enter a number:9.8887
```

In [7]:
```
type(num)
```
Out[7]:
```
float
```

In [ ]:

In [ ]:

In [ ]:
```
## split()--------->it is going to split a string into list
```

In [10]:
```
text="hii all how are you"
```

In [11]:
```
x=text.split()
```

In [12]:
```
print(x)
```
```
['hii', 'all', 'how', 'are', 'you']
```

In [13]:
```
type(x)
```
Out[13]:
```
list
```

In [ ]:

In [14]:
```
data=input().split()
```

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Run Code

In [ ]:

In [14]:
```
data=input().split()
```
```
8 56 88 33
```

In [15]:
```
data
```
Out[15]:
```
['8', '56', '88', '33']
```

In [ ]:
```
def greet()
```

In [ ]:
```
## Lambda:-----

## Lambda is anonymous function-----> function with no name

x=lambda arguments:expression
```

In [16]:
```
x=lambda a,b,c:a+b+c
```

In [17]:
```
print(x(22,3,4))
```
```
29
```

In [18]:
```
x=lambda a,b,:a*b
```

In [19]:
```
print(x(4,5))
```
```
20
```

In [ ]:

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Run Code

In [20]:
```
l2=[33,66,87,67,56,54,89,96,83]
```

In [21]:
```
l1
```

Out[21]:
```
[1, 33, 44, 55, 7, 6, 3, 98]
```

In [ ]:
```
### filter()

syntax---------->filter(function,sequence)
```

In [ ]:
```
## here i want to filter of even numbers
```

In [22]:
```
even=filter(lambda n:n%2==0,l1)
```

In [23]:
```
even
```

Out[23]:
```
<filter at 0x1ccec419508>
```

In [30]:
```
even=list(filter(lambda n:n%2==0,l1))
```

In [31]:
```
even
```

Out[31]:
```
[44, 6, 98]
```

In [32]:
```
even=list(filter(lambda n:n%2==0,l2))
```

In [33]:
```
even
```

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Run Code

In [32]:
```
even=list(filter(lambda n:n%2==0,l2))
```

In [33]:
```
even
```

Out[33]: [66, 56, 54, 96]

In [ ]:

In [48]:
```
def is_even(n):
    return n%2==0
```

In [49]:
```
l3=[22,67,98,67,56,54,21,90]
```

In [50]:
```
even=(filter(is_even,l3))
```

In [51]:
```
even
```

Out[51]: <filter at 0x1ccec3d8388>

In [64]:
```
even=(list(filter(is_even,l3)))
```

In [65]:
```
l3
```

Out[65]: [22, 67, 98, 67, 56, 54, 21, 90]

In [66]:
```
even
```

Out[66]: [22, 98, 56, 54, 90]

In [ ]:

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Run Code

In [ ]:

In [ ]:
```
## map ---------->map will be using for modifying the data
```

In [ ]:
```
##syntax------>map(function,sequence)
```

In [ ]:
```
data=input().split(' ')
```

In [67]:
```
l3=map(int,input().split(' '))
```
```
33 66 77 56 43 78
```

In [68]:
```
l3
```

Out[68]:
```
<map at 0x1ccec430388>
```

In [69]:
```
l3=list(map(int,input().split(' ')))
```
```
33 66 78 53 56 45 32
```

In [70]:
```
l3
```

Out[70]:
```
[33, 66, 78, 53, 56, 45, 32]
```

In [ ]:

In [71]:
```
def incr(n):
    return n+2
```

In [72]: l4=list(map(incr,l3))

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Run Code

In [ ]:

In [71]:
```
def incr(n):
    return n+2
```

In [72]:
```
l4=list(map(incr,l3))
```

In [73]:
```
l4
```

Out[73]: [35, 68, 80, 55, 58, 47, 34]

In [ ]:
```
with lambda
```

In [74]:
```
l5=list(map(lambda x:x+2,l3))
```

In [75]:
```
l5
```

Out[75]: [35, 68, 80, 55, 58, 47, 34]

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

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