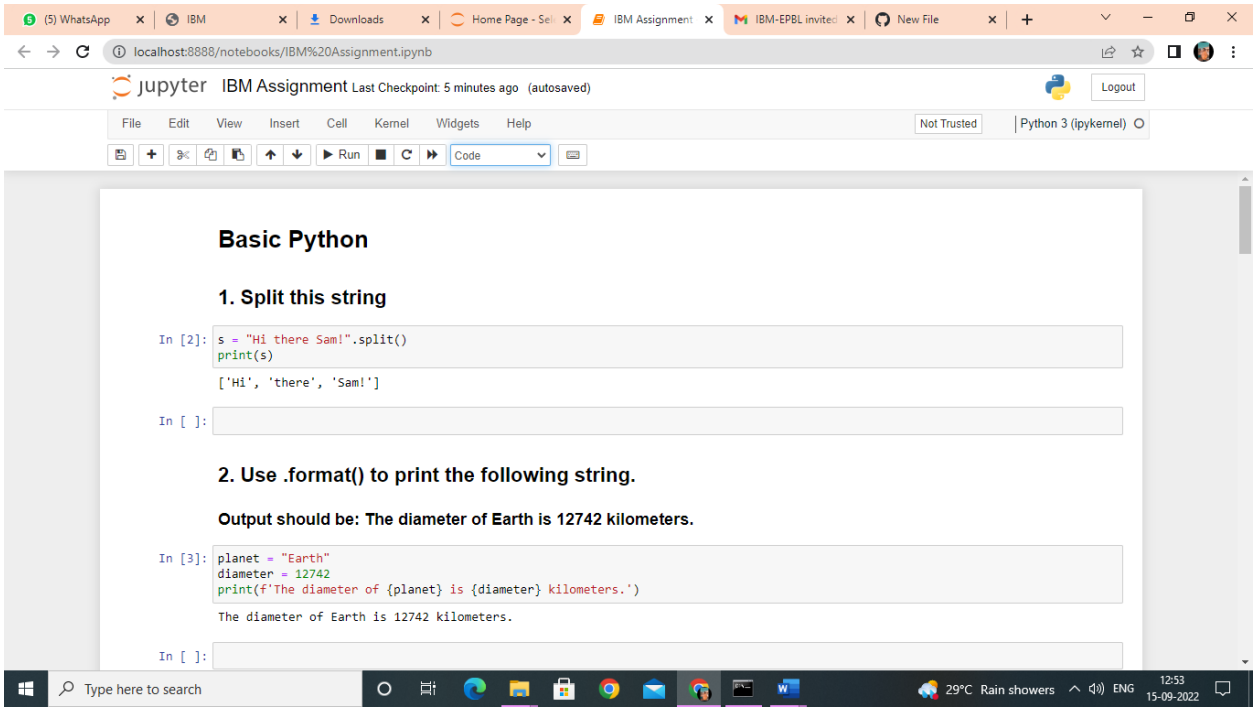
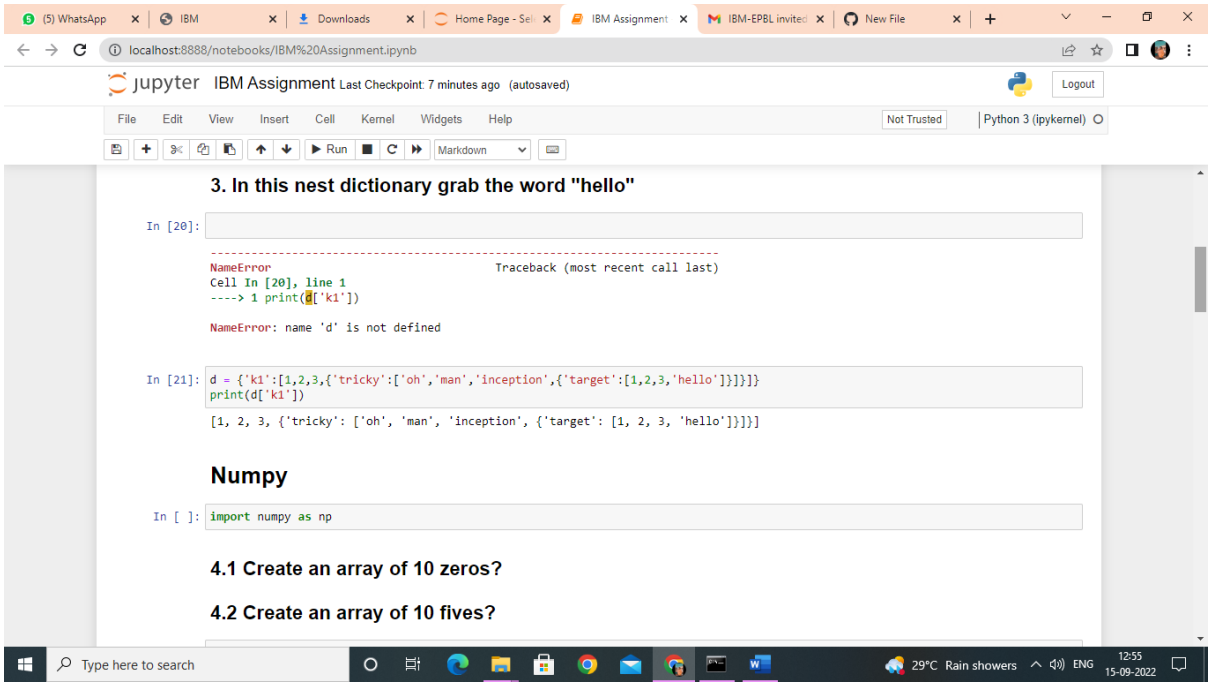
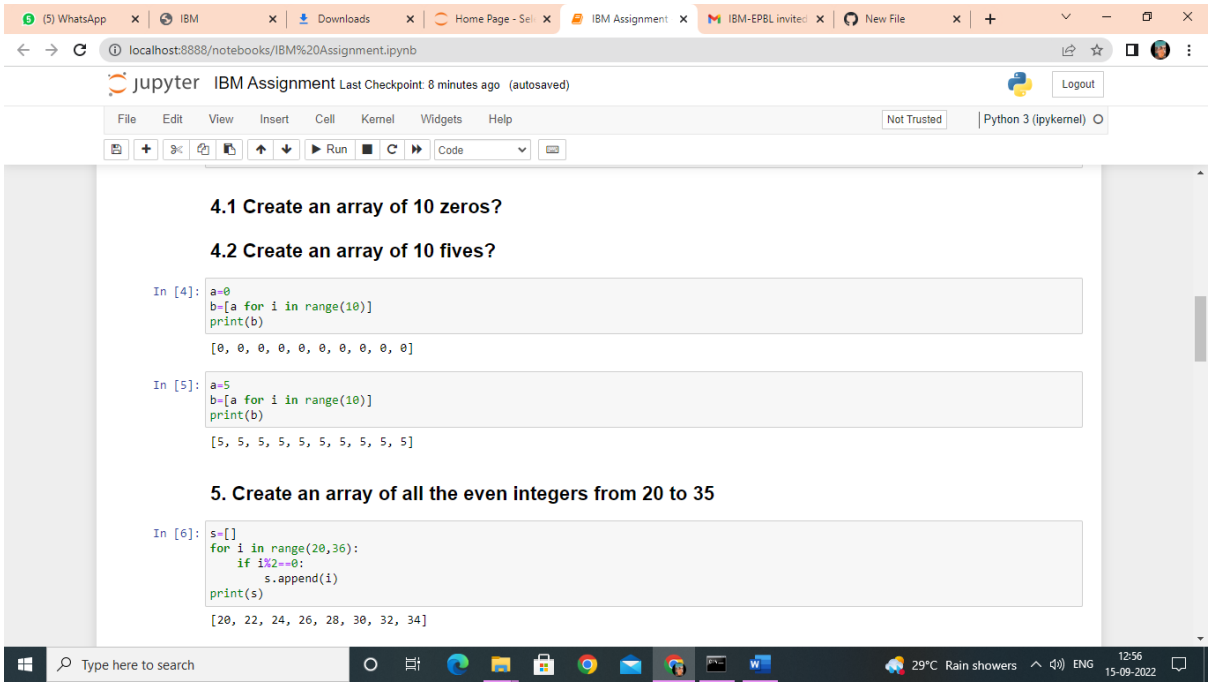
ASSIGNMENT1



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Python 3 (ipykernel)
Run
Code
4.1 Create an array of 10 zeros?
4.2 Create an array of 10 fives?
In [4]:
a=0
b=[a for i in range(10)]
print(b)
[0, 0, 0, 0, 0, 0, 0, 0, 0, 0]
In [5]:
a=5
b=[a for i in range(10)]
print(b)
[5, 5, 5, 5, 5, 5, 5, 5, 5, 5]
5. Create an array of all the even integers from 20 to 35
In [6]:
s=[]
for i in range(20,36):
if i%2==0:
s.append(i)
print(s)
[20, 22, 24, 26, 28, 30, 32, 34]
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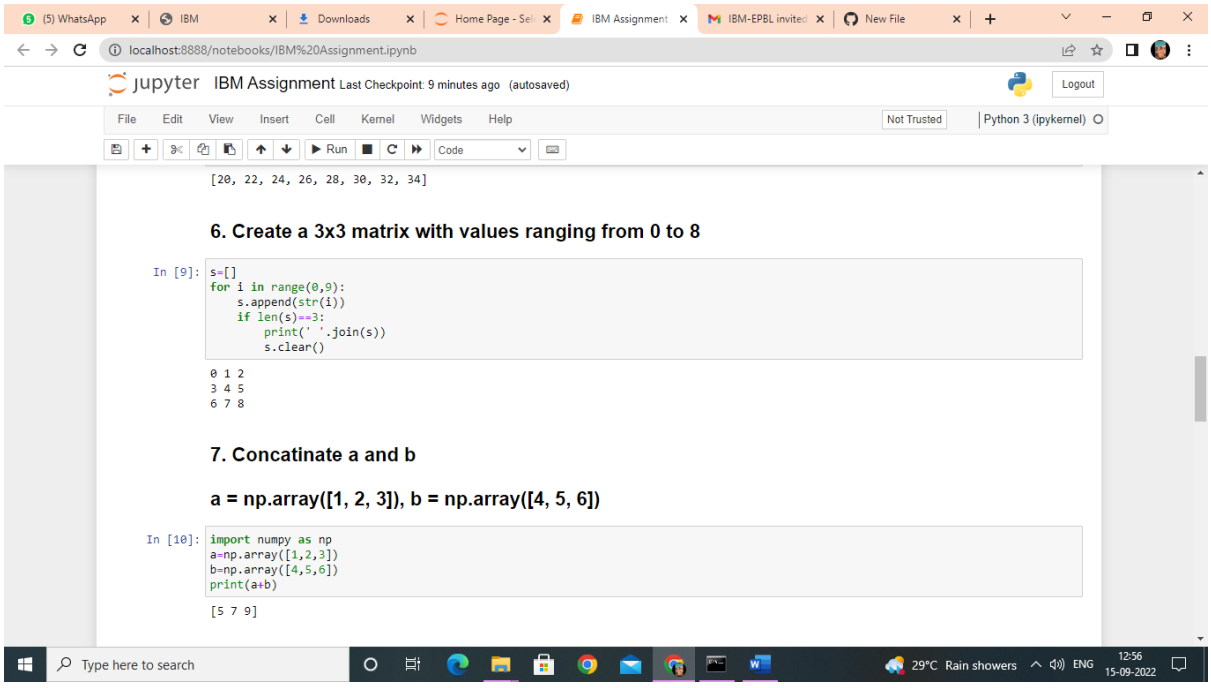
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Code
[20, 22, 24, 26, 28, 30, 32, 34]
6. Create a 3x3 matrix with values ranging from 0 to 8
In [9]:
s=[]
for i in range(0,9):
s.append(str(i))
if len(s)==3:
print(' '.join(s))
s.clear()
0 1 2
3 4 5
6 7 8
7. Concatinate a and b
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
In [10]:
import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
print(a+b)
[5 7 9]
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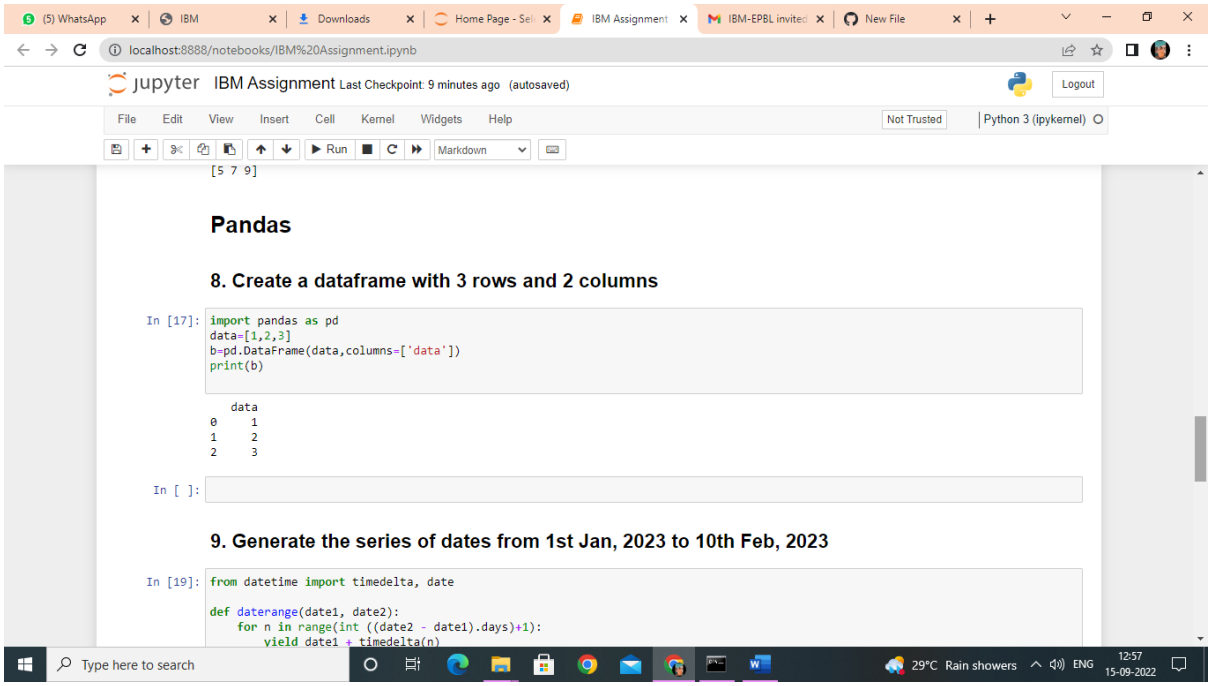
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[5 7 9]
Pandas
8. Create a dataframe with 3 rows and 2 columns
In [17]:
import pandas as pd
data=[1,2,3]
b=pd.DataFrame(data,columns=['data'])
print(b)
data
0 1
1 2
2 3
In [ ]:
9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
In [19]:
from datetime import timedelta, date
def daterange(date1, date2):
for n in range(int ((date2 - date1).days)+1):
yield date1 + timedelta(n)
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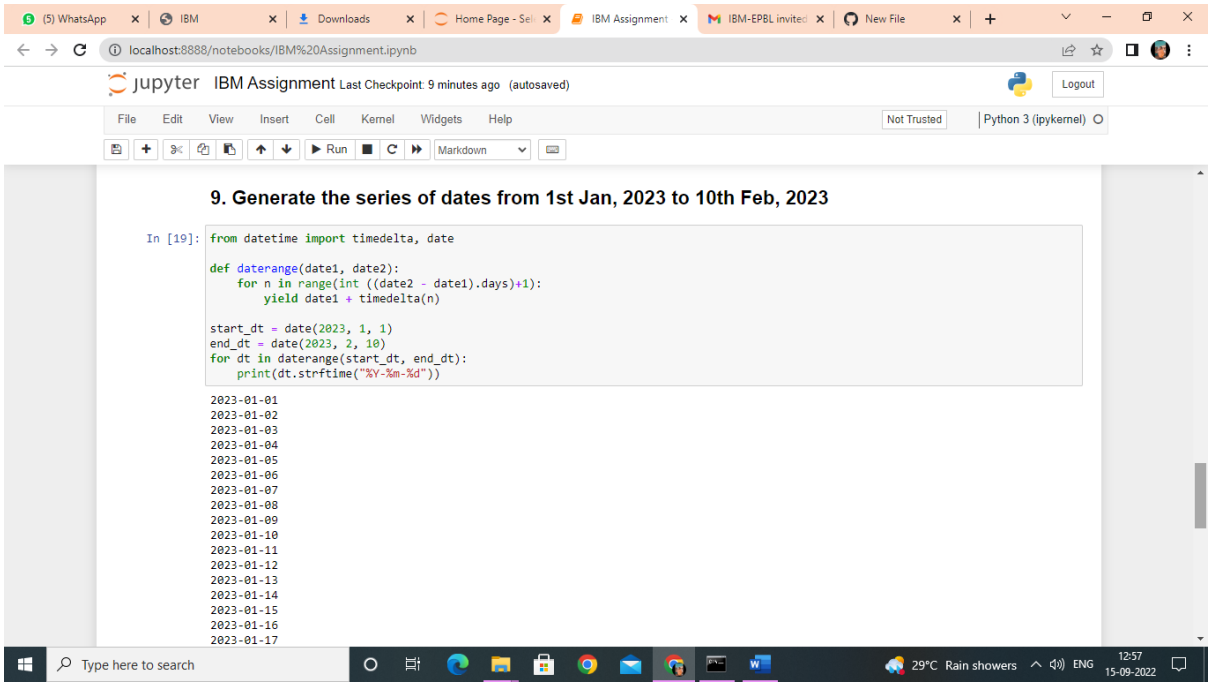
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9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
In [19]:
from datetime import timedelta, date
def daterange(date1, date2):
for n in range(int ((date2 - date1).days)+1):
yield date1 + timedelta(n)
start_dt = date(2023, 1, 1)
end_dt = date(2023, 2, 10)
for dt in daterange(start_dt, end_dt):
print(dt.strftime("%Y-%m-%d"))
2023-01-01
2023-01-02
2023-01-03
2023-01-04
2023-01-05
2023-01-06
2023-01-07
2023-01-08
2023-01-09
2023-01-10
2023-01-11
2023-01-12
2023-01-13
2023-01-14
2023-01-15
2023-01-16
2023-01-17
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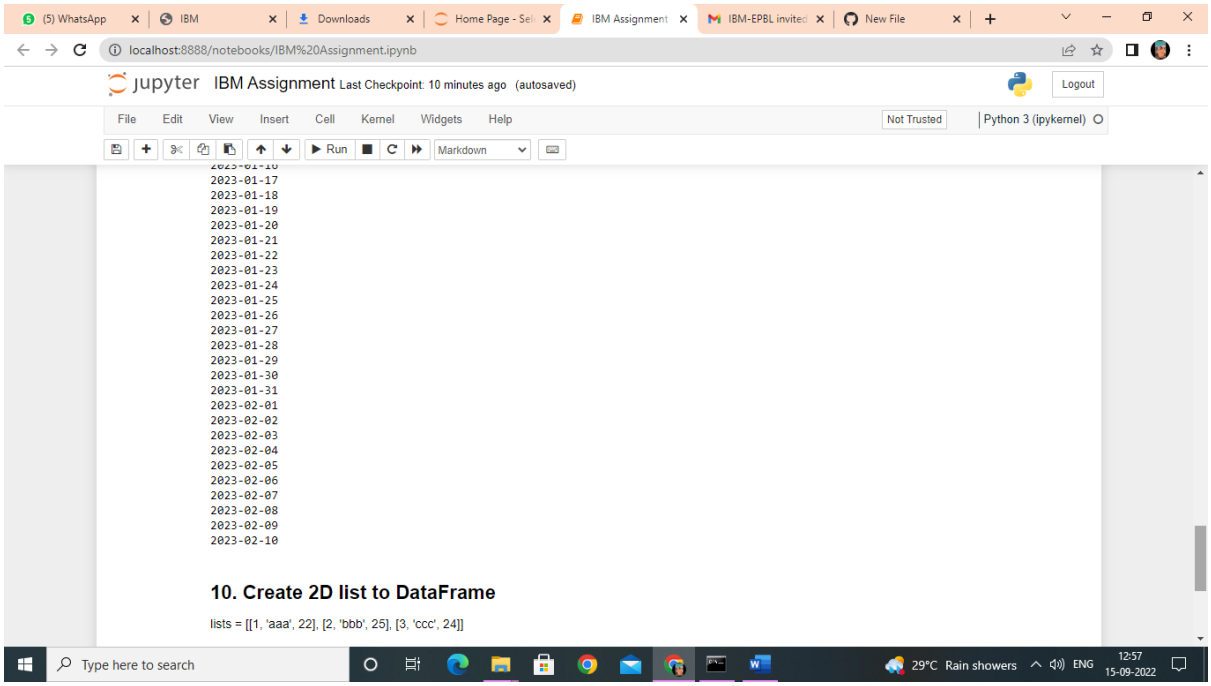
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2023-01-17
2023-01-18
2023-01-19
2023-01-20
2023-01-21
2023-01-22
2023-01-23
2023-01-24
2023-01-25
2023-01-26
2023-01-27
2023-01-28
2023-01-29
2023-01-30
2023-01-31
2023-02-01
2023-02-02
2023-02-03
2023-02-04
2023-02-05
2023-02-06
2023-02-07
2023-02-08
2023-02-09
2023-02-10
10. Create 2D list to DataFrame
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
Type here to search
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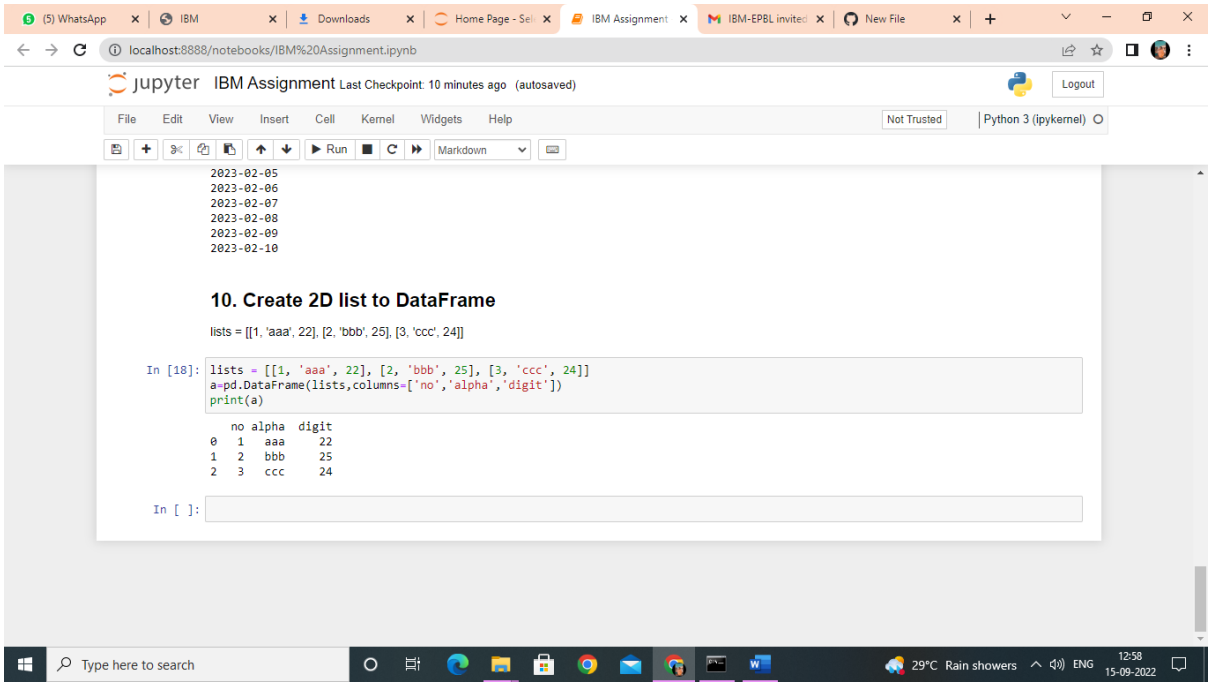
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Python 3 (ipykernel)
Run
Markdown
2023-02-05
2023-02-06
2023-02-07
2023-02-08
2023-02-09
2023-02-10
10. Create 2D list to DataFrame
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
In [18]:
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
a=pd.DataFrame(lists,columns=['no','alpha','digit'])
print(a)
no alpha digit
0 1 aaa 22
1 2 bbb 25
2 3 ccc 24
In [ ]:
Type here to search
29°C Rain showers
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