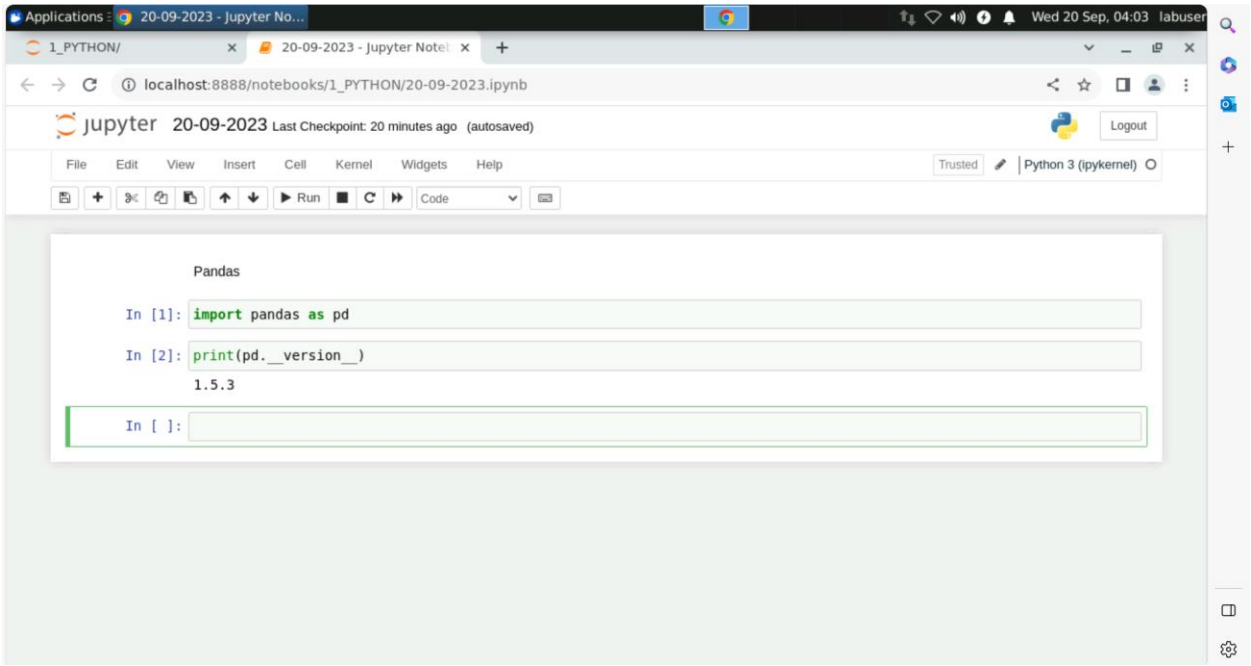
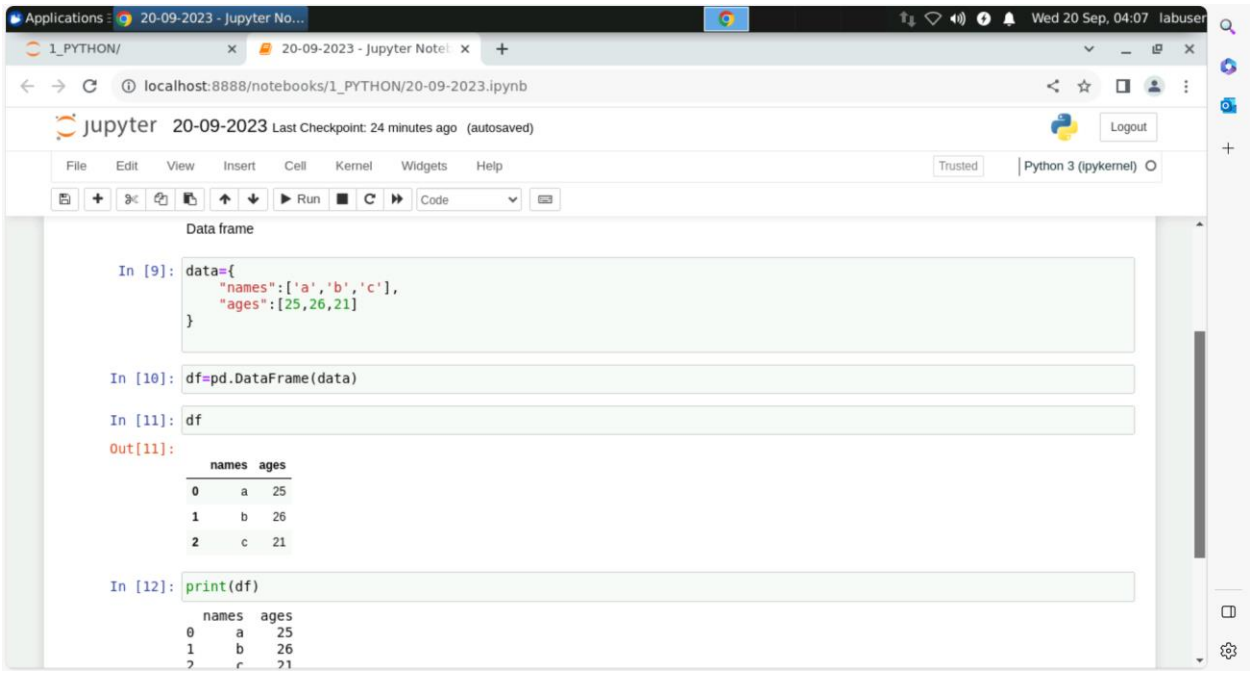
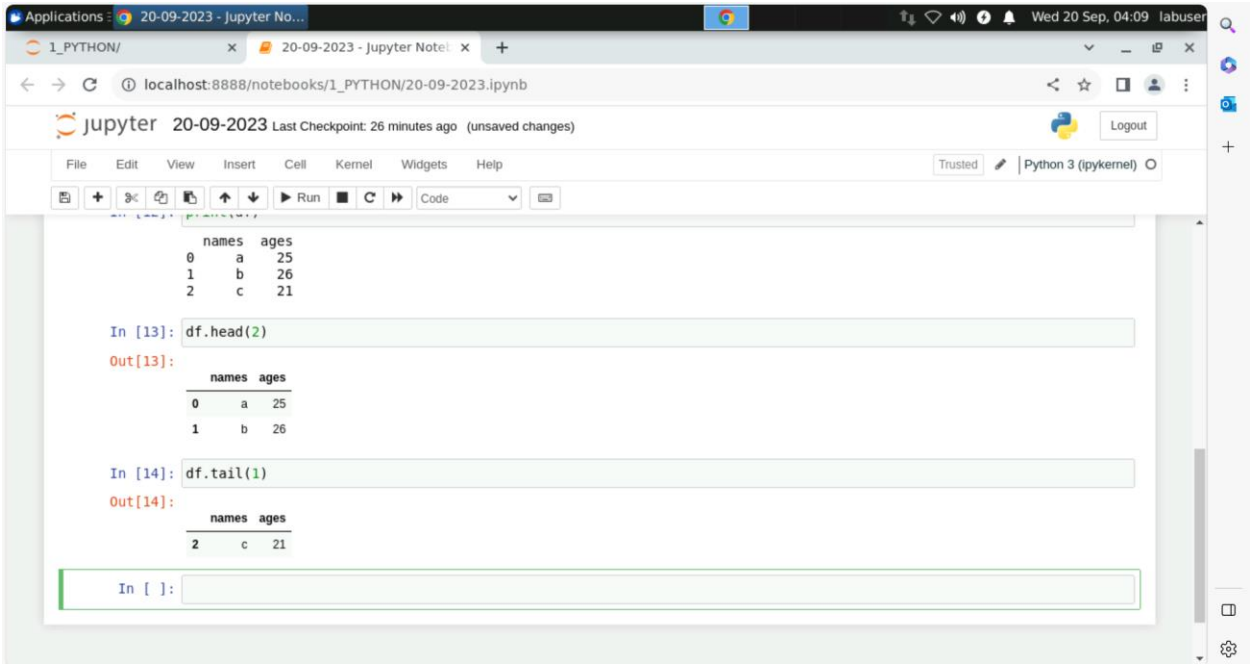
Pandas

https://pandas.pydata.org/docs/



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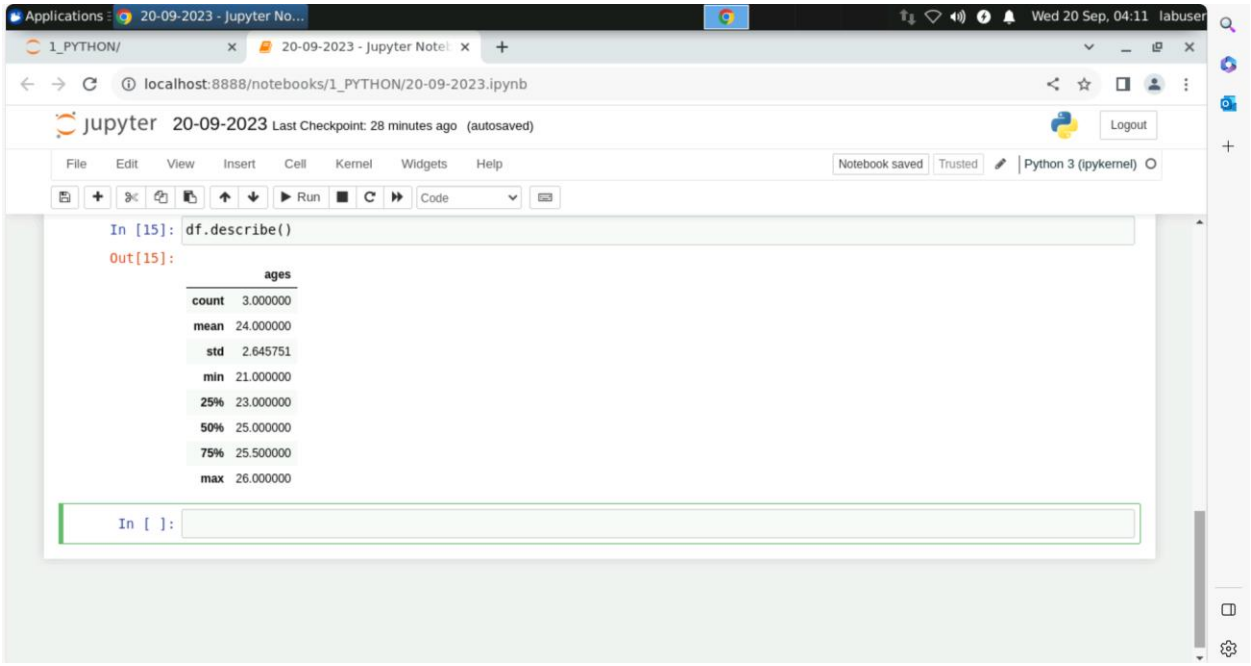
Trusted
Python 3 (ipykernel)
Run
Code
names ages
0 a 25
1 b 26
2 c 21
In [13]: df.head(2)
Out[13]:
names ages
0 a 25
1 b 26
In [14]: df.tail(1)
Out[14]:
names ages
2 c 21
In [ ]: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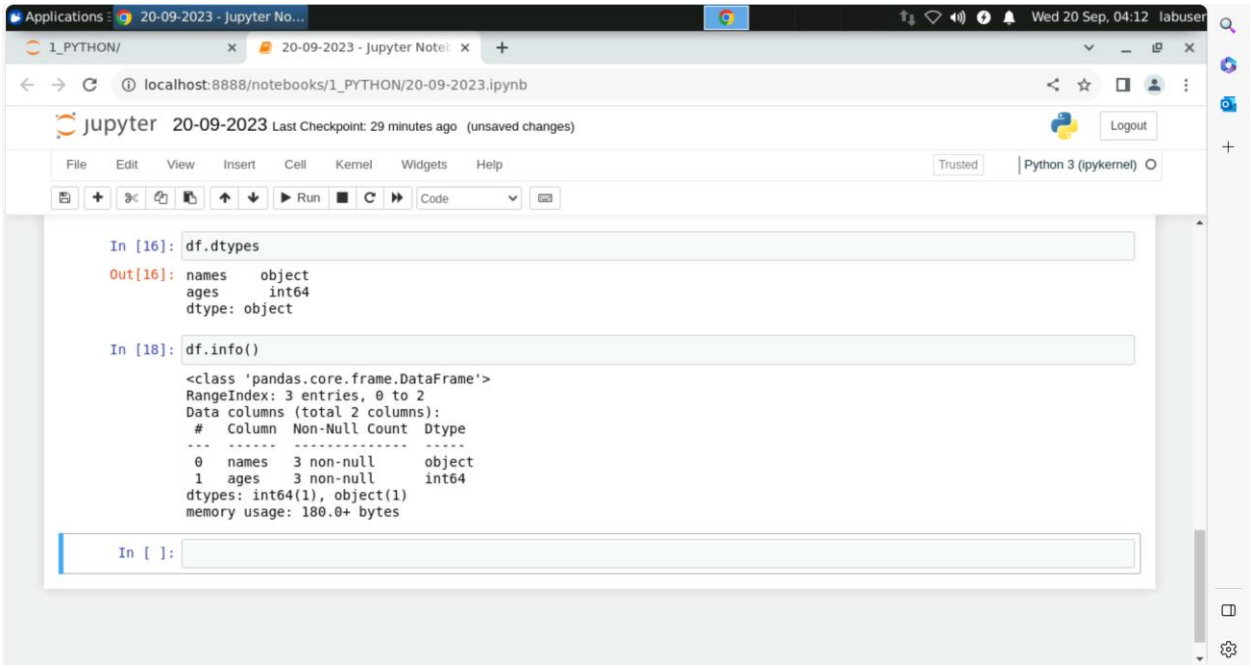
Logout
File Edit View Insert Cell Kernel Widgets Help
Notebook saved
Trusted
Python 3 (ipykernel)
Run
Code
In [15]: df.describe()
Out[15]:
ages
count 3.000000
mean 24.000000
std 2.645751
min 21.000000
25% 23.000000
50% 25.000000
75% 25.500000
max 26.000000
In [ ]: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jupyter 20-09-2023 Last Checkpoint: 29 minutes ago (unsaved changes)
Logout
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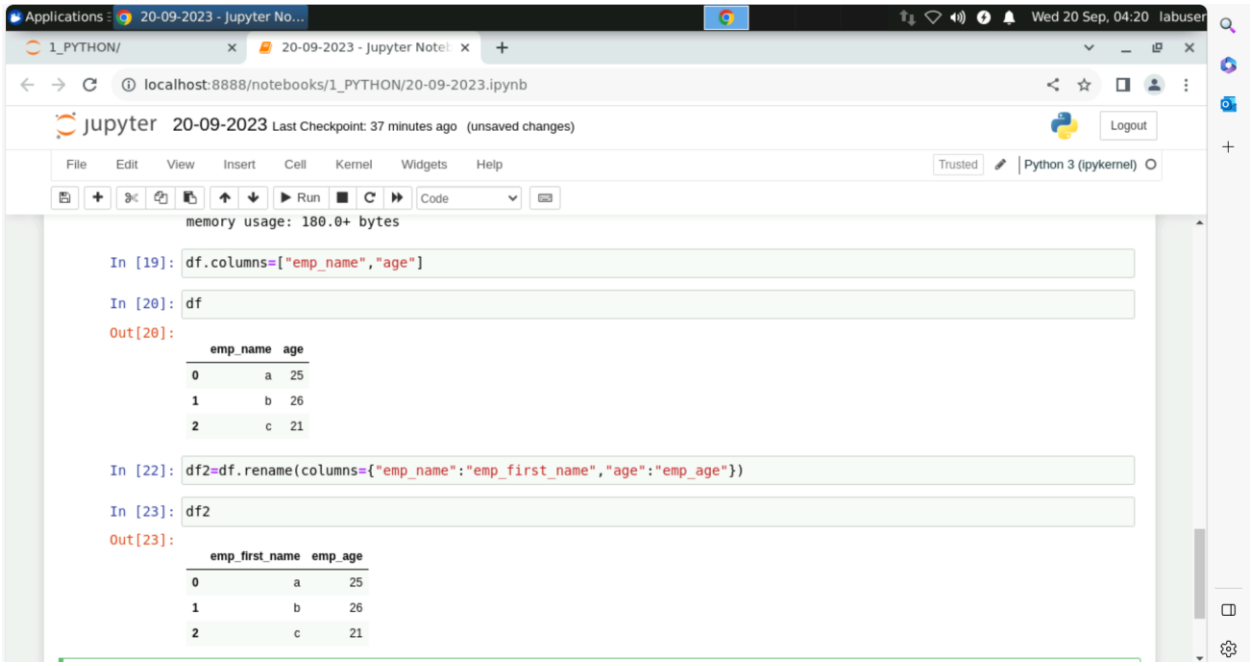
Trusted
Python 3 (ipykernel)
Run
Code
In [16]: df.dtypes
Out[16]: names object
ages int64
dtype: object
In [18]: df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 3 entries, 0 to 2
Data columns (total 2 columns):
Column Non-Null Count Dtype
--- ------ -------------- -----
0 names 3 non-null object
1 ages 3 non-null int64
dtypes: int64(1), object(1)
memory usage: 180.0+ bytes
In [ ]: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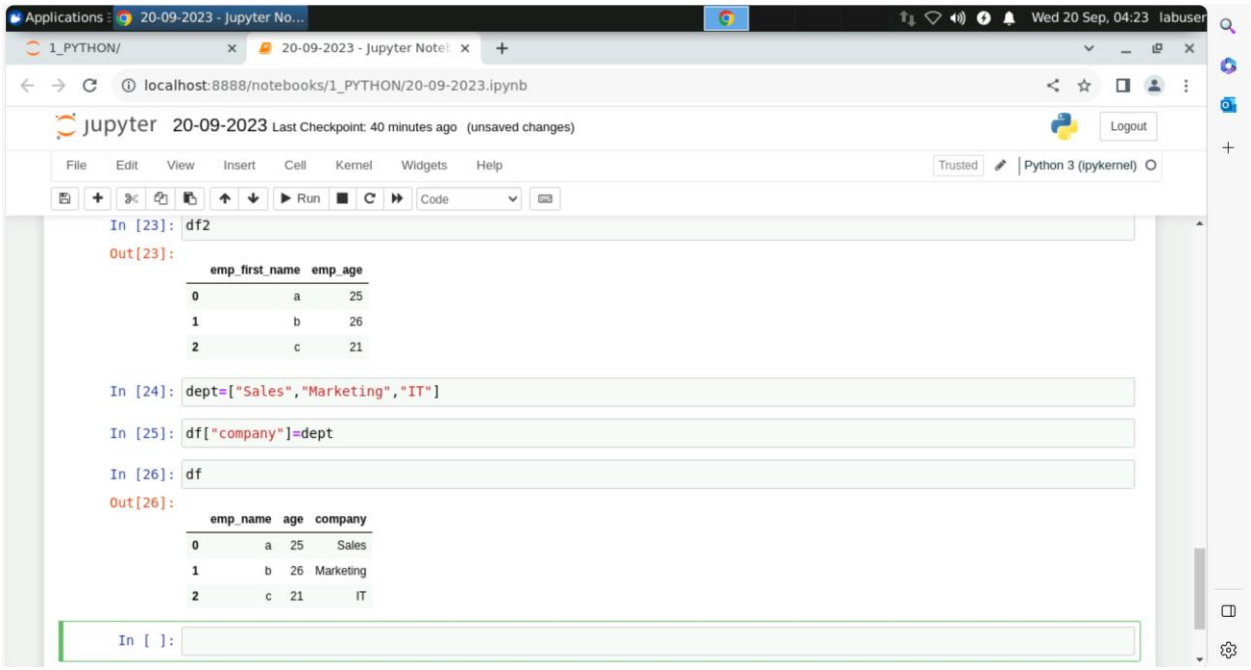
Trusted
Python 3 (ipykernel)
Run
Code
memory usage: 180.0+ bytes
In [19]: df.columns=["emp_name","age"]
In [20]: df
Out[20]:
emp_name age
0 a 25
1 b 26
2 c 21
In [22]: df2=df.rename(columns={"emp_name":"emp_first_name","age":"emp_age"})
In [23]: df2
Out[23]:
emp_first_name emp_age
0 a 25
1 b 26
2 c 21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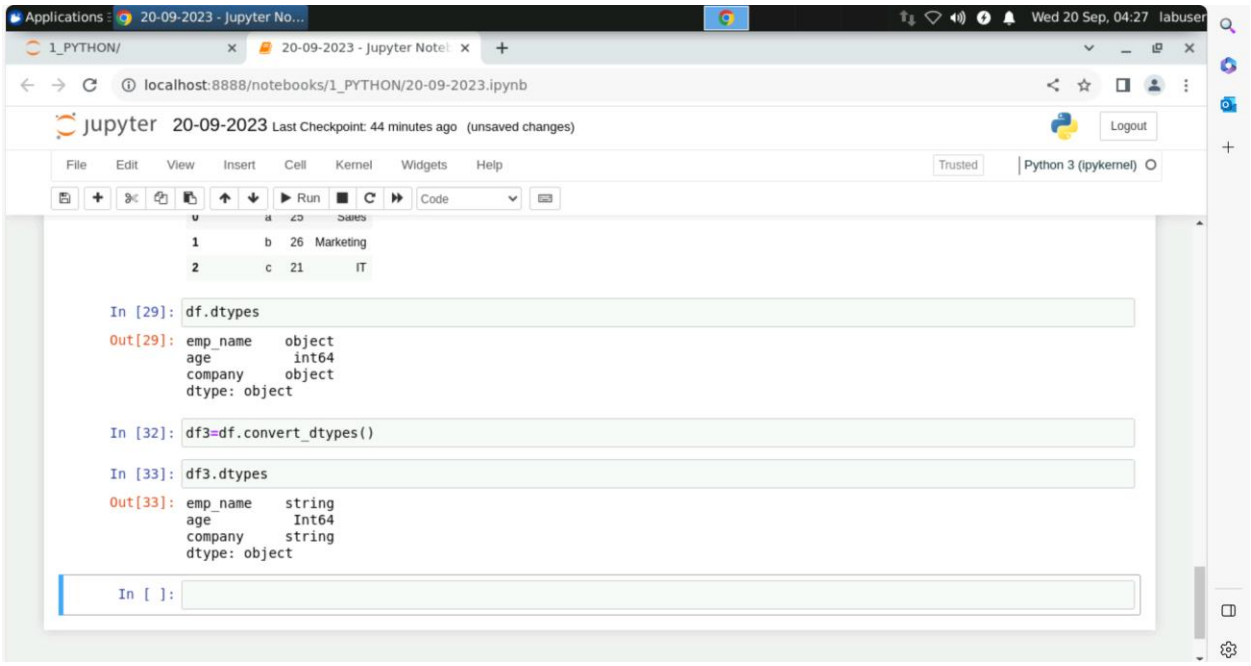
Trusted
Python 3 (ipykernel)
Run
Code
In [23]: df2
Out[23]:
emp_first_name emp_age
0 a 25
1 b 26
2 c 21
In [24]: dept=["Sales","Marketing","IT"]
In [25]: df["company"]=dept
In [26]: df
Out[26]:
emp_name age company
0 a 25 Sales
1 b 26 Marketing
2 c 21 IT
In [ ]: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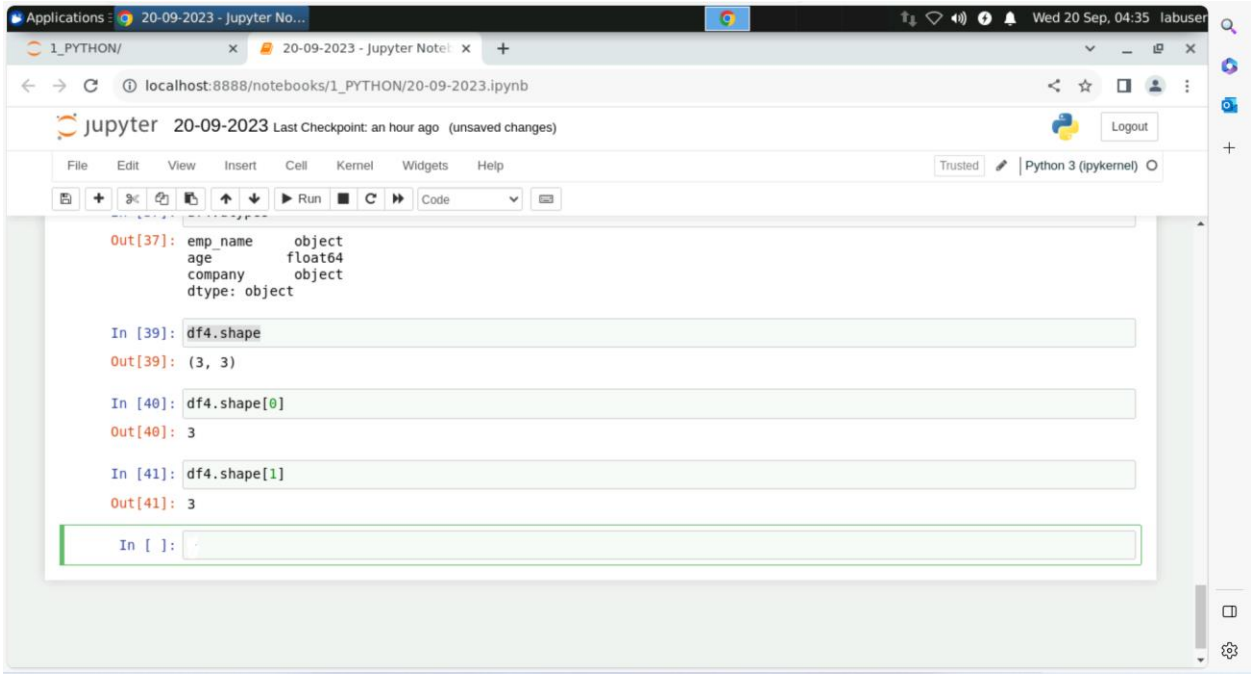
Trusted
Python 3 (ipykernel)
Run
Code
1 b 26 Marketing
2 c 21 IT
In [29]: df.dtypes
Out[29]: emp_name object
age int64
company object
dtype: object
In [32]: df3=df.convert_dtypes()
In [33]: df3.dtypes
Out[33]: emp_name string
age Int64
company string
dtype: object
In [ ]: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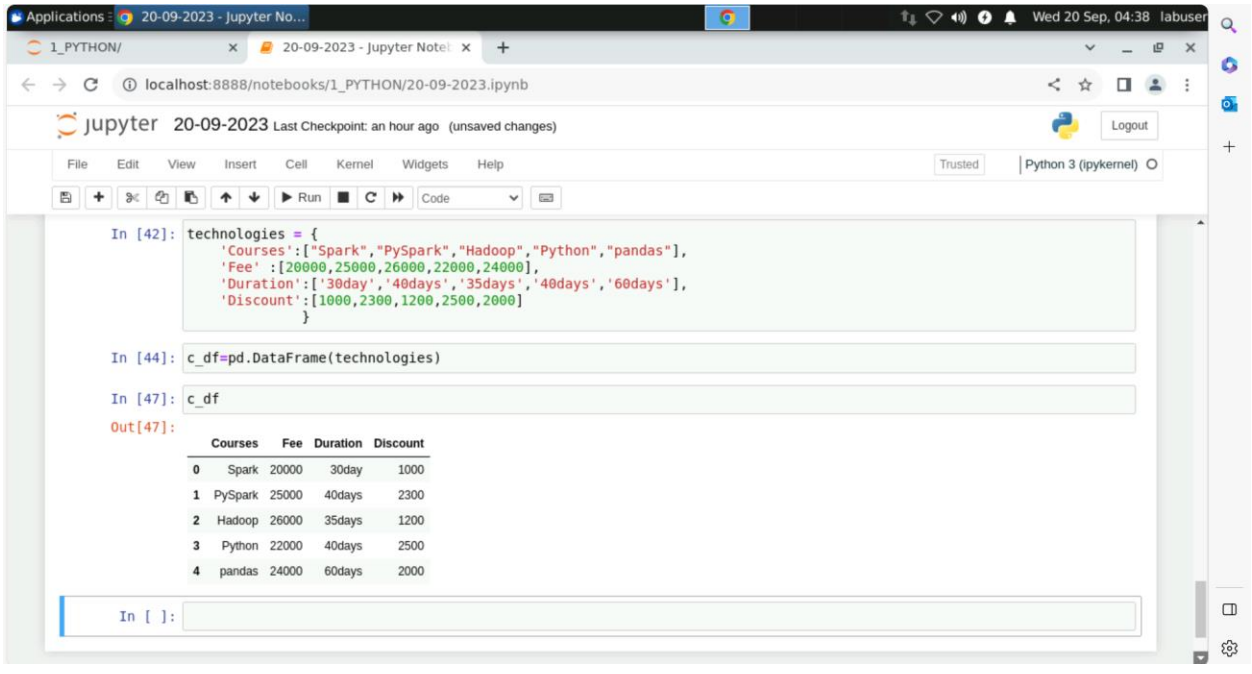
Python 3 (ipykernel)
Run
Code
Out[37]:
emp_name object
age float64
company object
dtype: object
In [39]: df4.shape
Out[39]: (3, 3)
In [40]: df4.shape[0]
Out[40]: 3
In [41]: df4.shape[1]
Out[41]: 3
In [ ]: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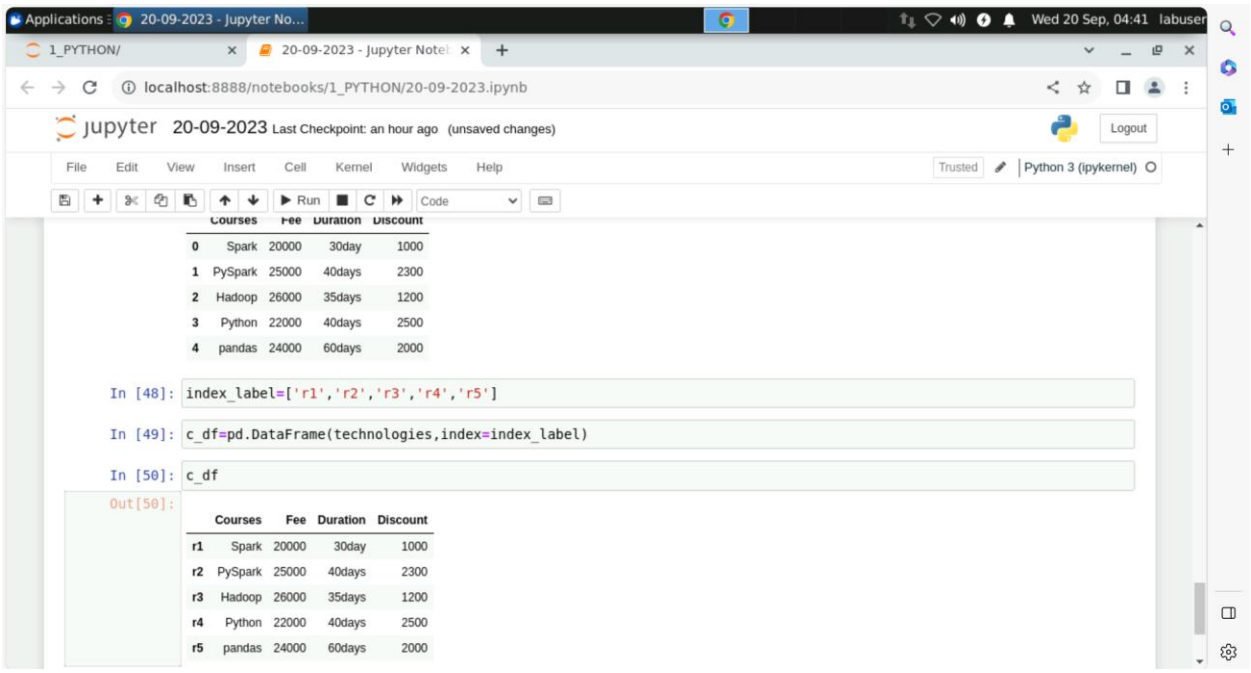
Python 3 (ipykernel)
Run
Code
In [42]:
technologies = {
'Courses':["Spark","PySpark","Hadoop","Python","pandas"],
'Fee' :[20000,25000,26000,22000,24000],
'Duration':['30day','40days','35days','40days','60days'],
'Discount':[1000,2300,1200,2500,2000]
}
In [44]: c_df=pd.DataFrame(technologies)
In [47]: c_df
Out[47]:
Courses Fee Duration Discount
0 Spark 20000 30day 1000
1 PySpark 25000 40days 2300
2 Hadoop 26000 35days 1200
3 Python 22000 40days 2500
4 pandas 24000 60days 2000
In [ ]: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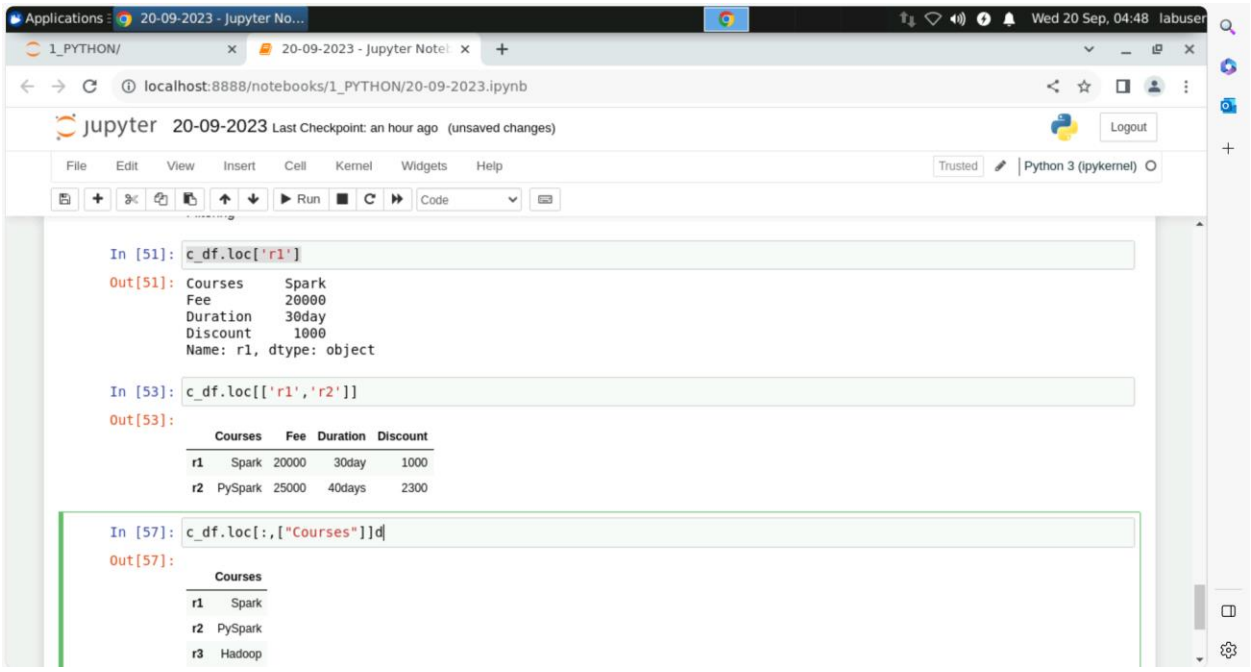
Python 3 (ipykernel)
Run
Code
In [48]: index_label=['r1','r2','r3','r4','r5']
In [49]: c_df=pd.DataFrame(technologies,index=index_label)
In [50]: c_df
Out[50]:
Courses Fee Duration Discount
r1 Spark 20000 30day 1000
r2 PySpark 25000 40days 2300
r3 Hadoop 26000 35days 1200
r4 Python 22000 40days 2500
r5 pandas 24000 60days 2000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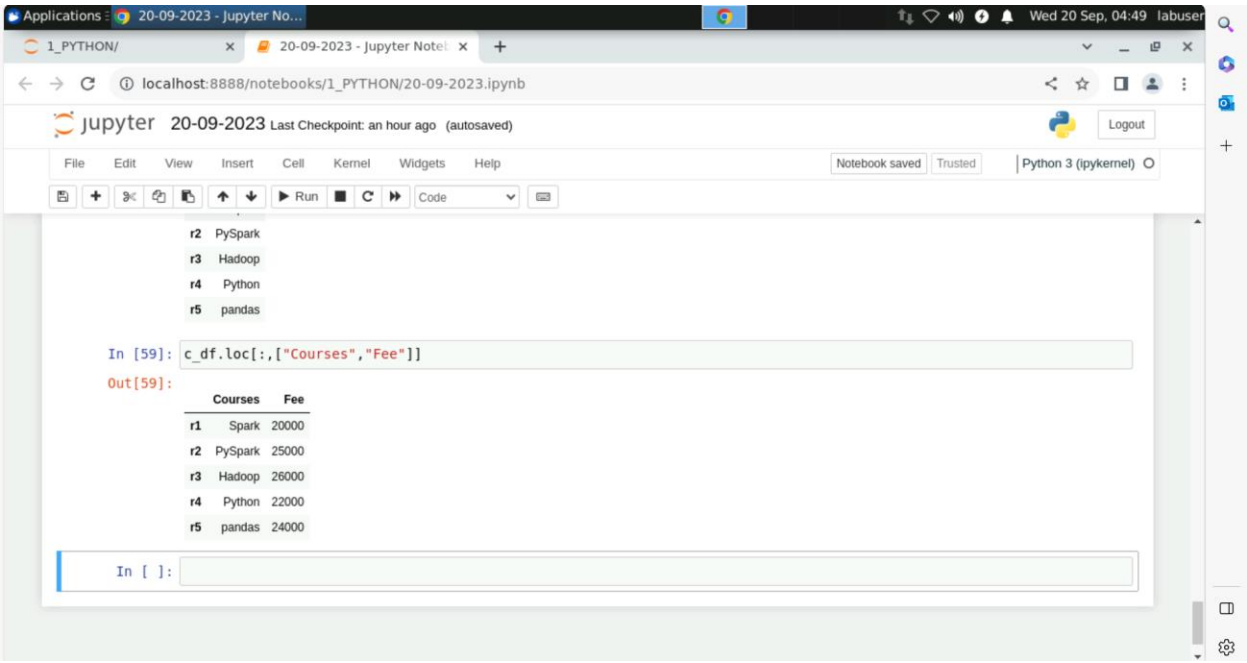
Trusted
Python 3 (ipykernel)
Run
Code
In [51]: c_df.loc['r1']
Out[51]:
Courses Spark
Fee 20000
Duration 30day
Discount 1000
Name: r1, dtype: object
In [53]: c_df.loc[['r1','r2']]
Out[53]:
Courses Fee Duration Discount
r1 Spark 20000 30day 1000
r2 PySpark 25000 40days 2300
In [57]: c_df.loc[:,["Courses"]]d
Out[57]:
Courses
r1 Spark
r2 PySpark
r3 Hadoop


Applications
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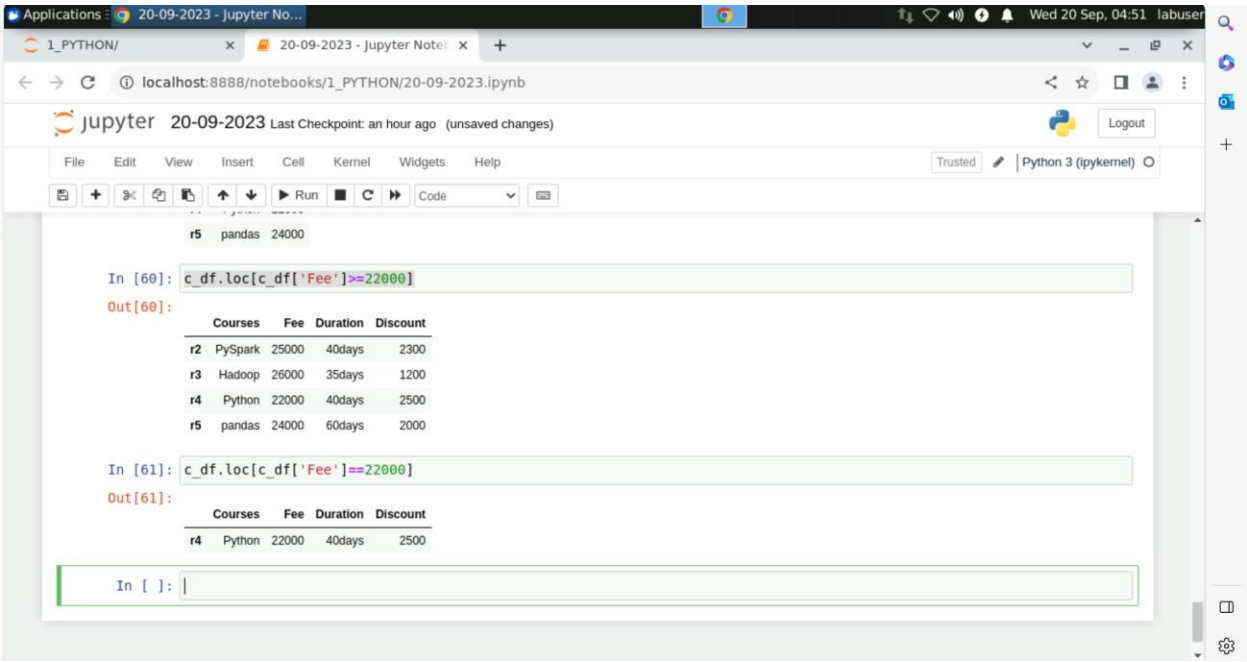
Notebook saved
Trusted
Python 3 (ipykernel)
Run
Code
r2 PySpark
r3 Hadoop
r4 Python
r5 pandas
In [59]: c_df.loc[:,["Courses","Fee"]]
Out[59]:
Courses Fee
r1 Spark 20000
r2 PySpark 25000
r3 Hadoop 26000
r4 Python 22000
r5 pandas 24000
In [ ]: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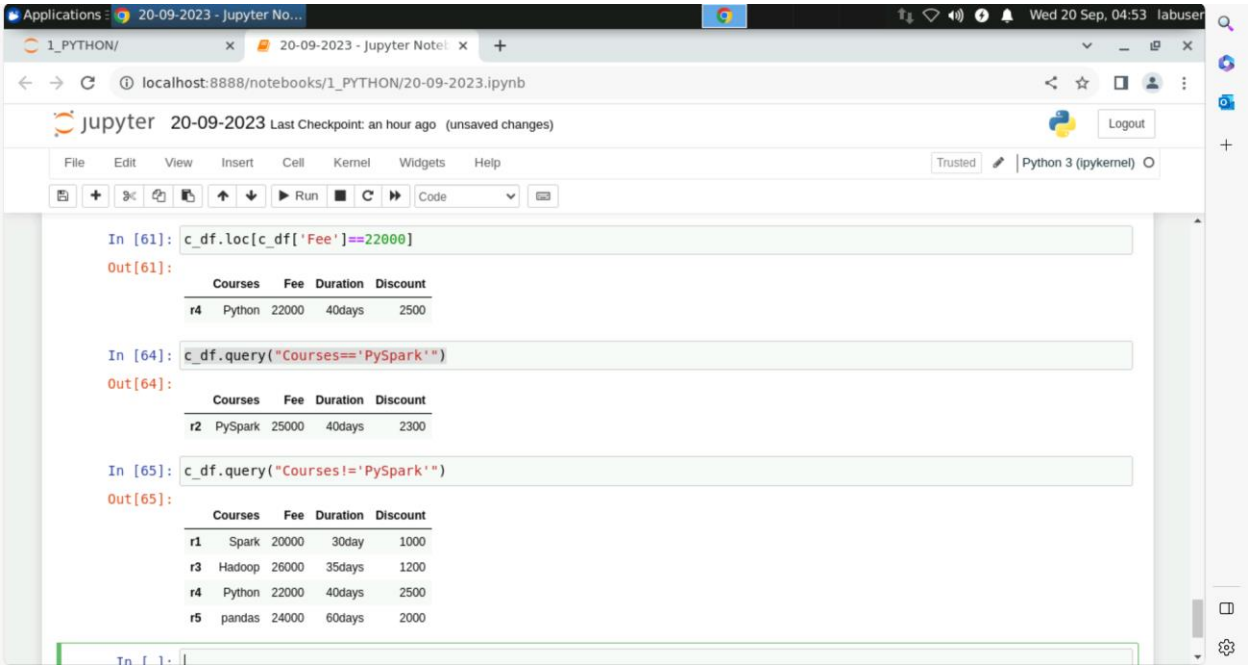
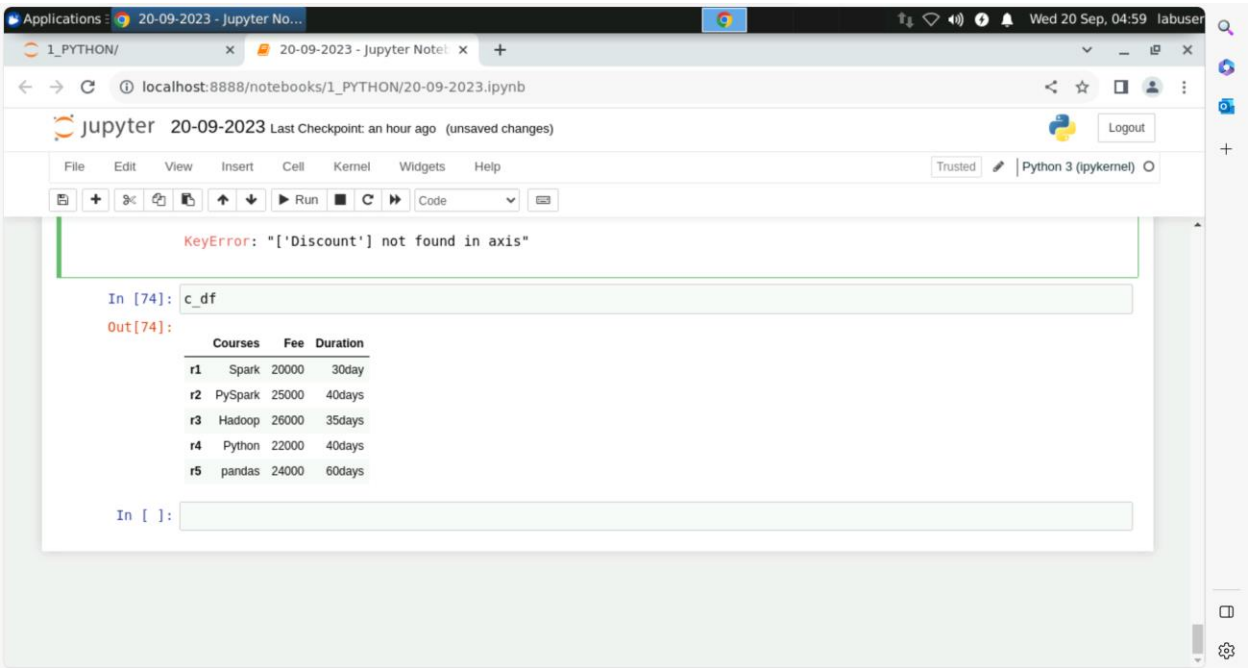
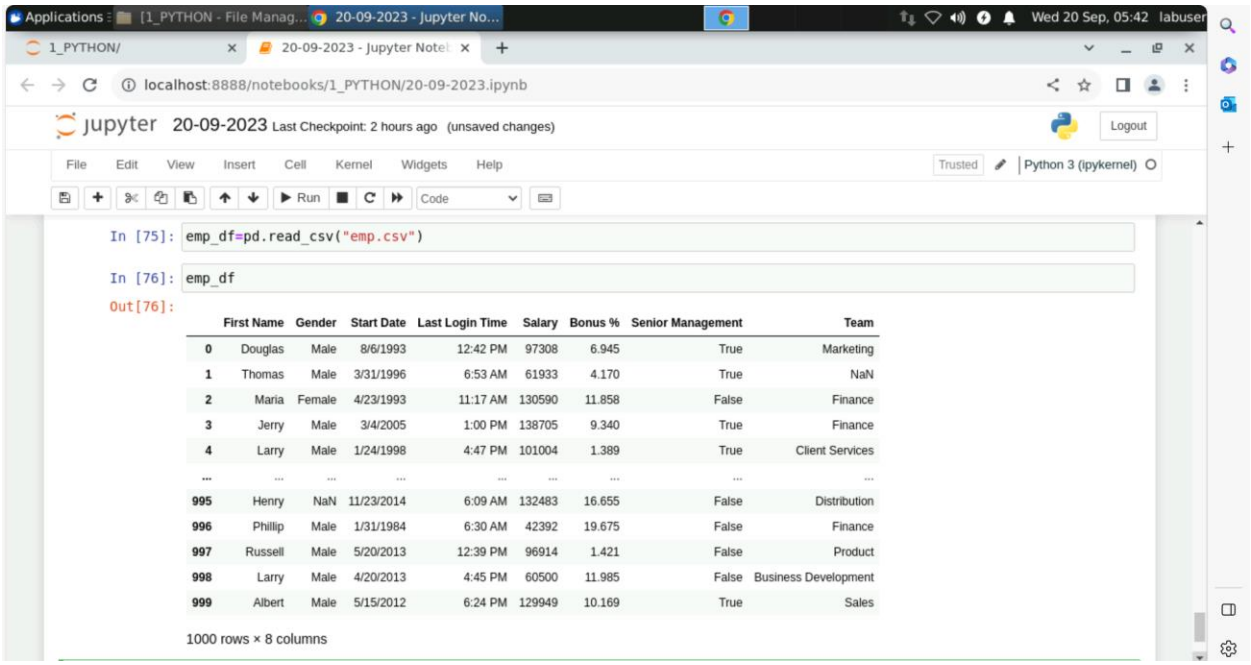
Trusted
Python 3 (ipykernel)
Run
Code
r5 pandas 24000
In [60]: c_df.loc[c_df['Fee']>=22000]
Out[60]:
Courses Fee Duration Discount
r2 PySpark 25000 40days 2300
r3 Hadoop 26000 35days 1200
r4 Python 22000 40days 2500
r5 pandas 24000 60days 2000
In [61]: c_df.loc[c_df['Fee']==22000]
Out[61]:
Courses Fee Duration Discount
r4 Python 22000 40days 2500
In [ ]:

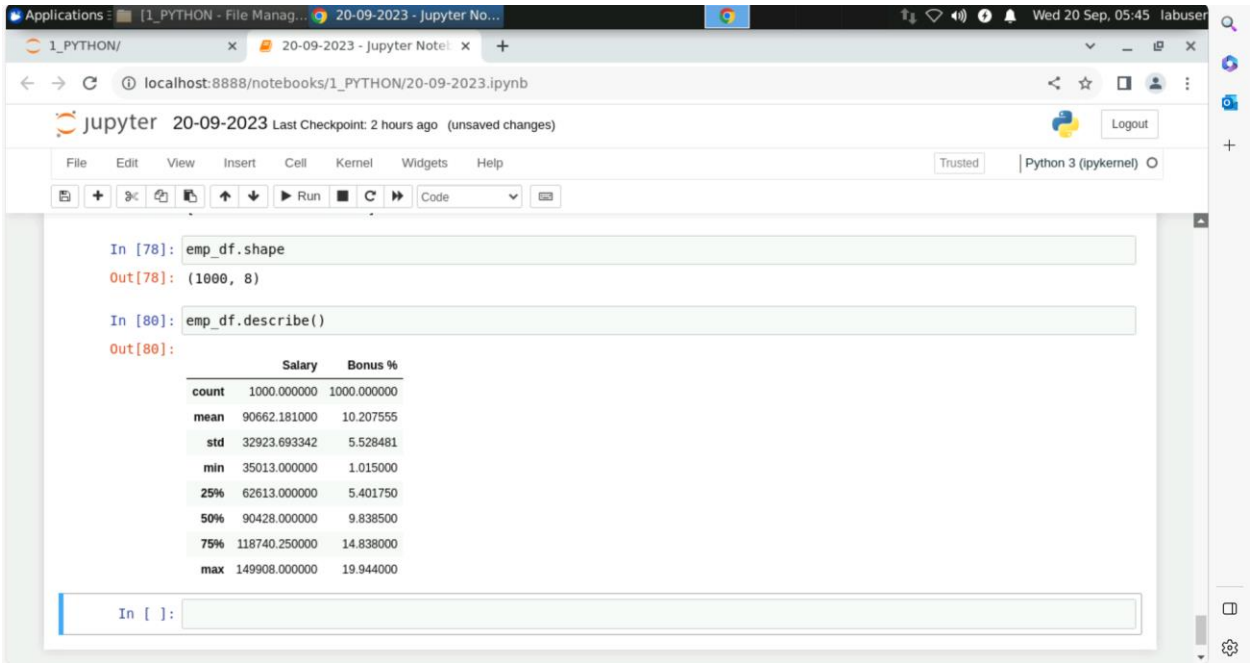


c_df=c_df.drop(['Discount'], axis=1) ----- TO DROP A COLUMN

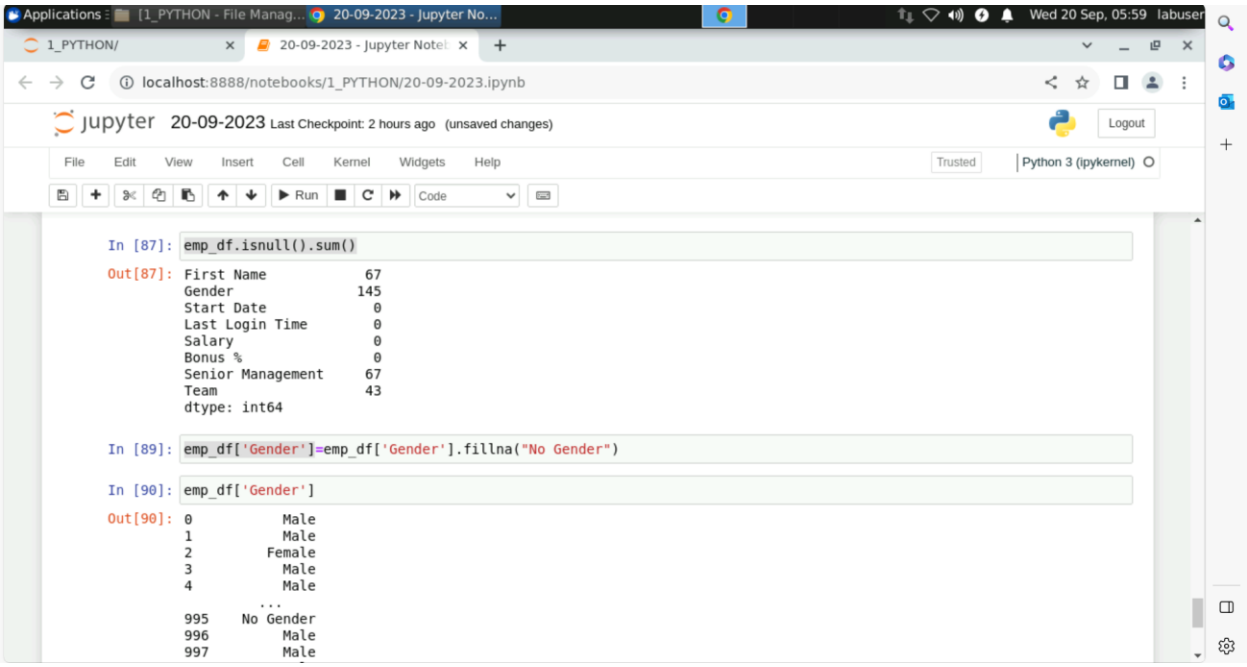




	First Name	Gender	Start Date	Last Login Time	Salary	Bonus %	Senior Management	Team
0	Douglas	Male	8/6/1993	12:42 PM	97308	6.945	True	Marketing
1	Thomas	Male	3/31/1996	6:53 AM	61933	4.170	True	NaN
2	Maria	Female	4/23/1993	11:17 AM	130590	11.858	False	Finance
3	Jerry	Male	3/4/2005	1:00 PM	138705	9.340	True	Finance
4	Larry	Male	1/24/1998	4:47 PM	101004	1.389	True	Client Services
...	...	...	...	...	...	...	...	...
995	Henry	NaN	11/23/2014	6:09 AM	132483	16.655	False	Distribution
996	Phillip	Male	1/31/1984	6:30 AM	42392	19.675	False	Finance
997	Russell	Male	5/20/2013	12:39 PM	96914	1.421	False	Product
998	Larry	Male	4/20/2013	4:45 PM	60500	11.985	False	Business Development
999	Albert	Male	5/15/2012	6:24 PM	129949	10.169	True	Sales



	Salary	Bonus %
count	1000.000000	1000.000000
mean	90662.181000	10.207555
std	32923.693342	5.528481
min	35013.000000	1.015000
25%	62613.000000	5.401750
50%	90428.000000	9.838500
75%	118740.250000	14.838000
max	149908.000000	19.944000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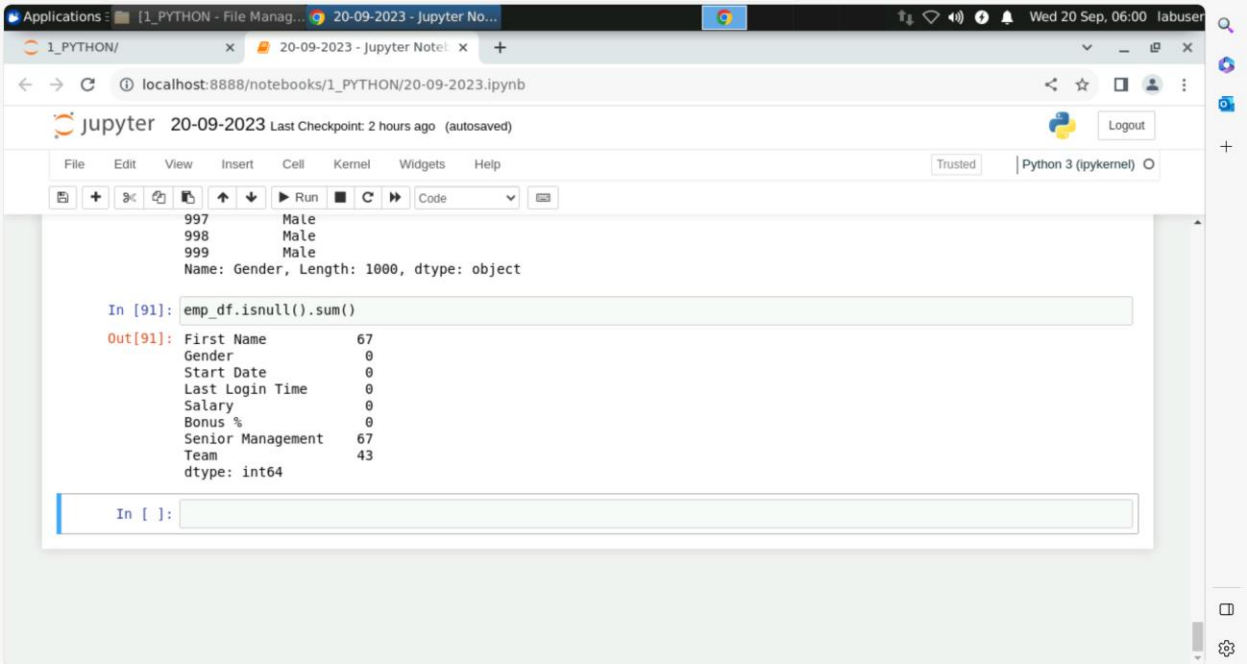
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
In [87]: emp_df.isnull().sum()
Out[87]: First Name 67
Gender 145
Start Date 0
Last Login Time 0
Salary 0
Bonus % 0
Senior Management 67
Team 43
dtype: int64
In [89]: emp_df['Gender']=emp_df['Gender'].fillna("No Gender")
In [90]: emp_df['Gender']
Out[90]: 0 Male
1 Male
2 Female
3 Male
4 Male
...
995 No Gender
996 Male
997 Male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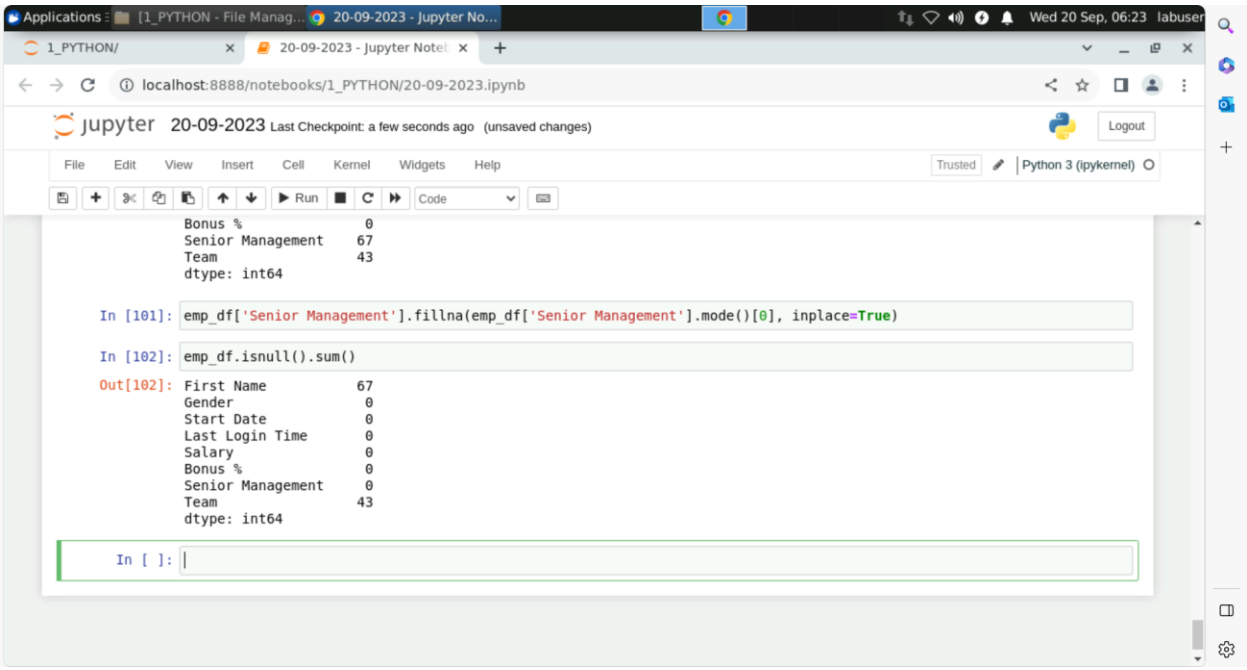
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
997 Male
998 Male
999 Male
Name: Gender, Length: 1000, dtype: object
In [91]: emp_df.isnull().sum()
Out[91]: First Name 67
Gender 0
Start Date 0
Last Login Time 0
Salary 0
Bonus % 0
Senior Management 67
Team 43
dtype: int64
In [ ]: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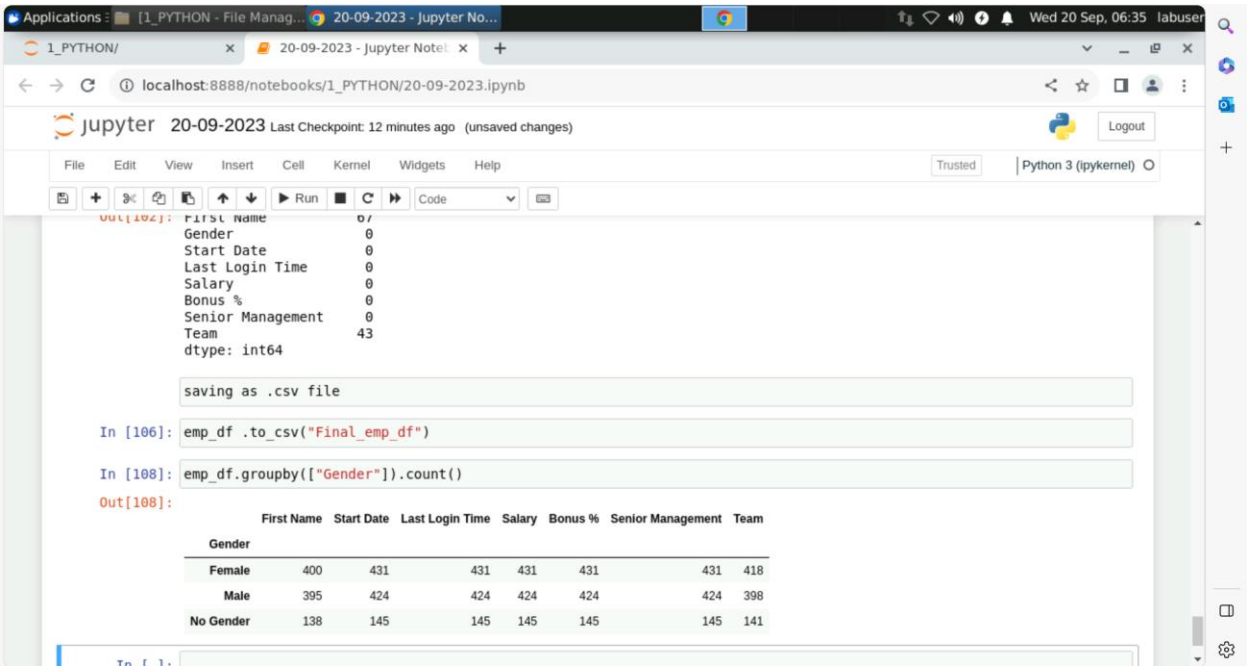
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
Bonus % 0
Senior Management 67
Team 43
dtype: int64
In [101]: emp_df['Senior Management'].fillna(emp_df['Senior Management'].mode()[0], inplace=True)
In [102]: emp_df.isnull().sum()
Out[102]: First Name 67
Gender 0
Start Date 0
Last Login Time 0
Salary 0
Bonus % 0
Senior Management 0
Team 43
dtype: int64
In [ ]: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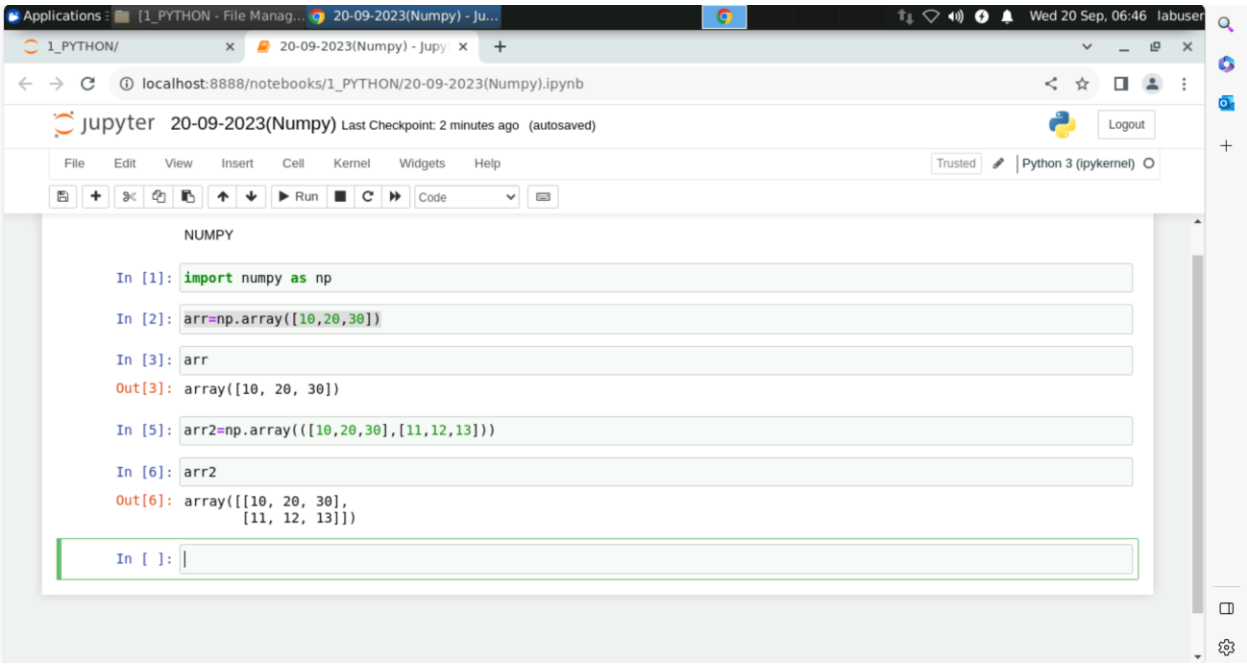
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted
Python 3 (ipykernel)
Run
Code
Gender 0
Start Date 0
Last Login Time 0
Salary 0
Bonus % 0
Senior Management 0
Team 43
dtype: int64
saving as .csv file
In [106]: emp_df .to_csv("Final_emp_df")
In [108]: emp_df.groupby(["Gender"]).count()
Out[108]:
First Name Start Date Last Login Time Salary Bonus % Senior Management Team
Gender
Female 400 431 431 431 431 431 418
Male 395 424 424 424 424 424 398
No Gender 138 145 145 145 145 145 141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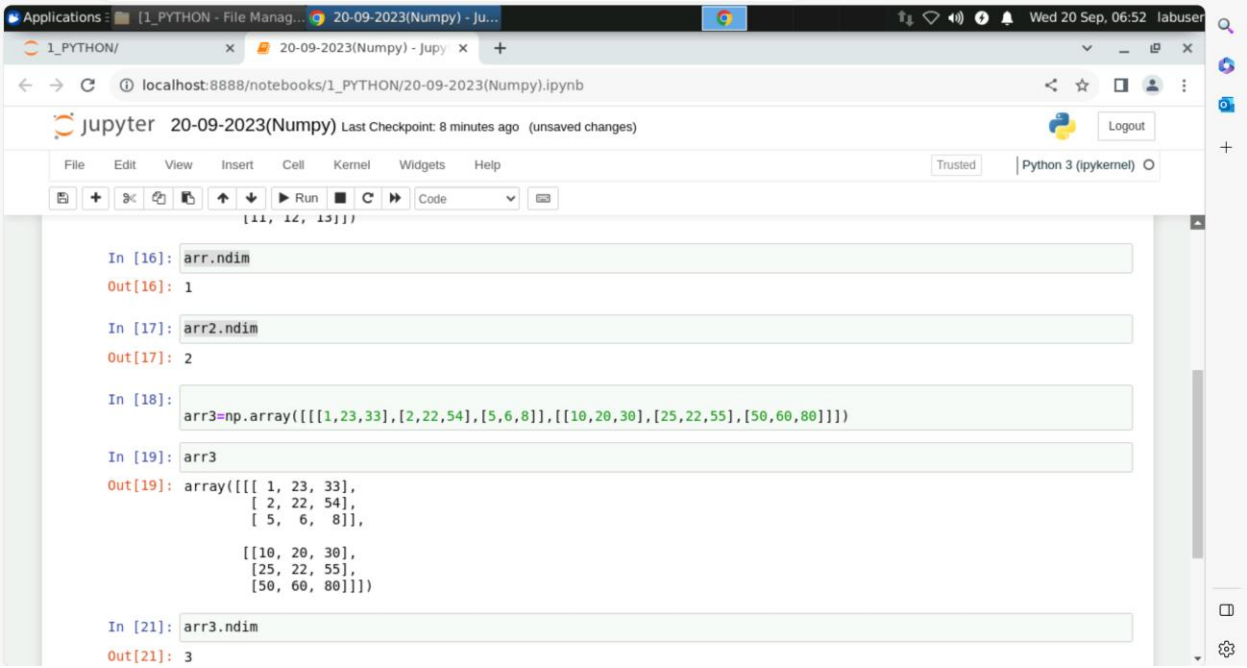
Python 3 (ipykernel)
Run
Code
NUMPY
In [1]: import numpy as np
In [2]: arr=np.array([10,20,30])
In [3]: arr
Out[3]: array([10, 20, 30])
In [5]: arr2=np.array(([10,20,30],[11,12,13]))
In [6]: arr2
Out[6]: array([[10, 20, 30],
[11, 12, 13]])
In [ ]: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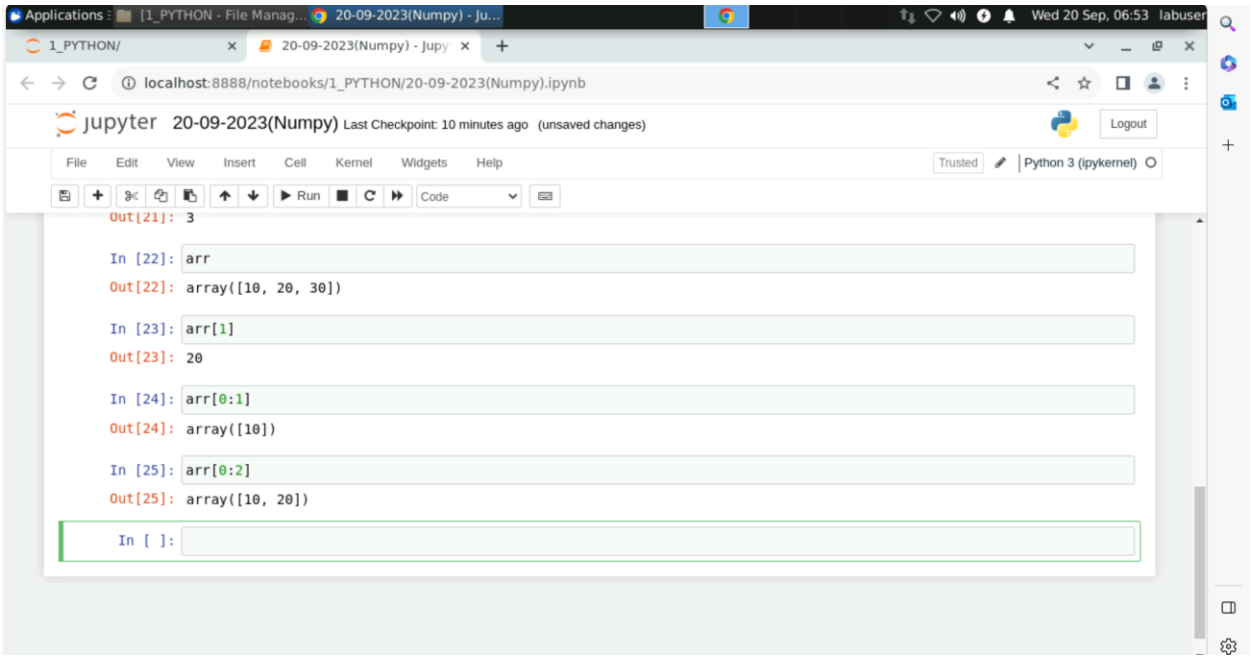
Python 3 (ipykernel)
Run
Code
In [16]: arr.ndim
Out[16]: 1
In [17]: arr2.ndim
Out[17]: 2
In [18]: arr3=np.array([[[1,23,33],[2,22,54],[5,6,8]],[[10,20,30],[25,22,55],[50,60,80]]])
In [19]: arr3
Out[19]: array([[[1, 23, 33],
[2, 22, 54],
[5, 6, 8]],
[[10, 20, 30],
[25, 22, 55],
[50, 60, 80]]])
In [21]: arr3.ndim
Out[21]: 3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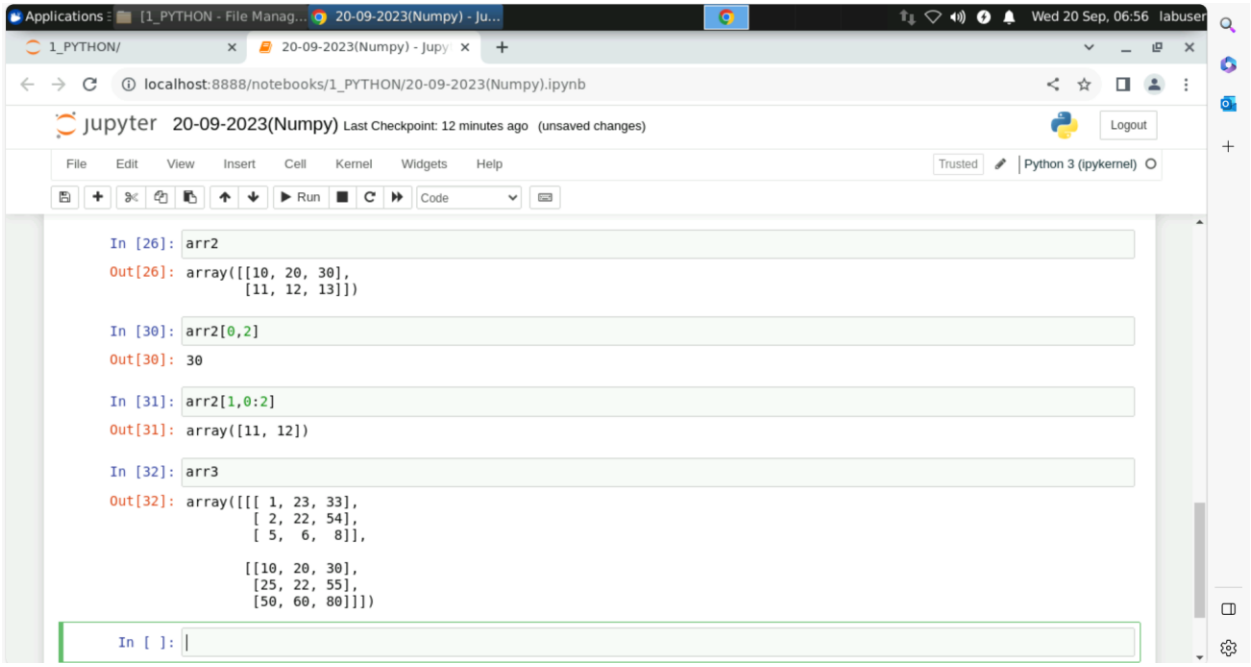
Python 3 (ipykernel)
Run
Code
Out[21]: 3
In [22]: arr
Out[22]: array([10, 20, 30])
In [23]: arr[1]
Out[23]: 20
In [24]: arr[0:1]
Out[24]: array([10])
In [25]: arr[0:2]
Out[25]: array([10, 20])
In [ ]: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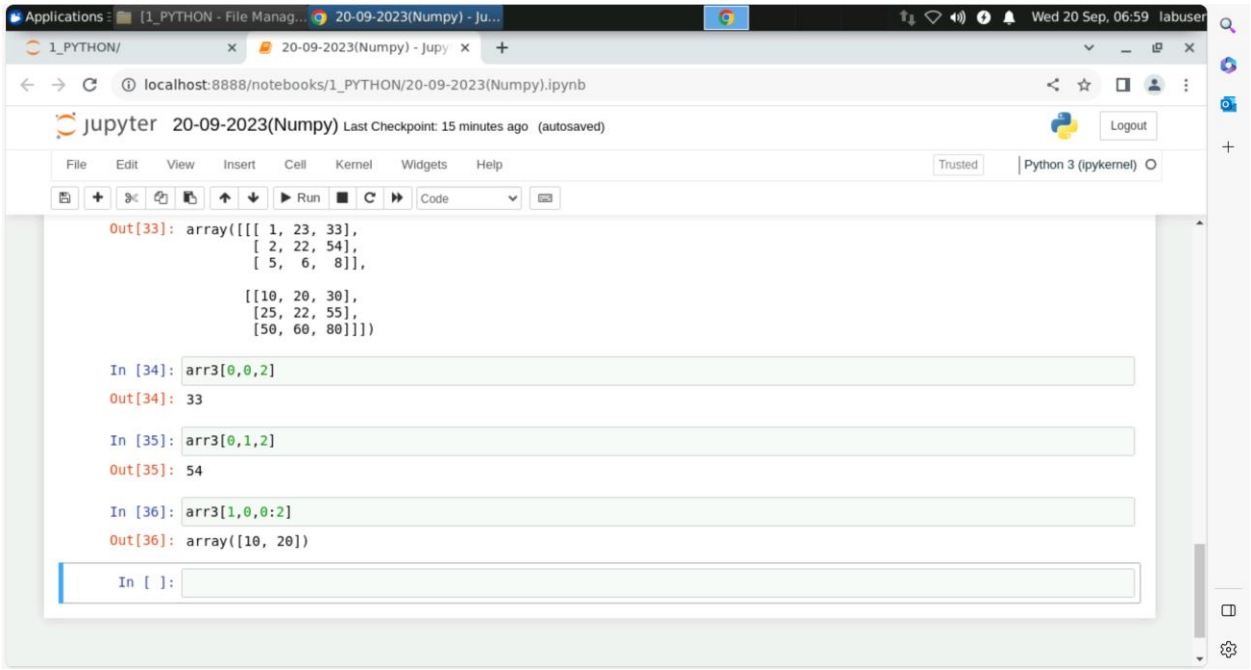
Python 3 (ipykernel)
Run
Code
In [26]: arr2
Out[26]: array([[10, 20, 30],
[11, 12, 13]])
In [30]: arr2[0,2]
Out[30]: 30
In [31]: arr2[1,0:2]
Out[31]: array([11, 12])
In [32]: arr3
Out[32]: array([[[1, 23, 33],
[2, 22, 54],
[5, 6, 8]],
[[10, 20, 30],
[25, 22, 55],
[50, 60, 80]]])
In [ ]: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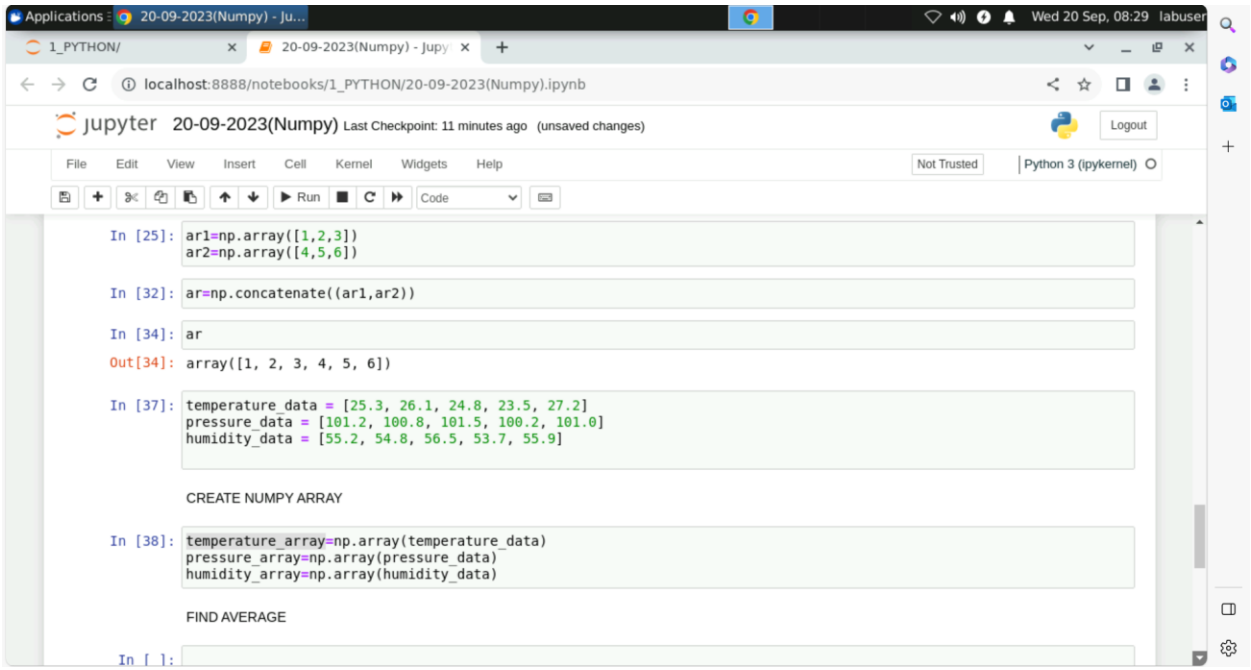
Python 3 (ipykernel)
Run
Code
Out[33]: array([[[1, 23, 33],
[2, 22, 54],
[5, 6, 8]],
[[10, 20, 30],
[25, 22, 55],
[50, 60, 80]]])
In [34]: arr3[0,0,2]
Out[34]: 33
In [35]: arr3[0,1,2]
Out[35]: 54
In [36]: arr3[1,0,0:2]
Out[36]: array([10, 20])
In [ ]: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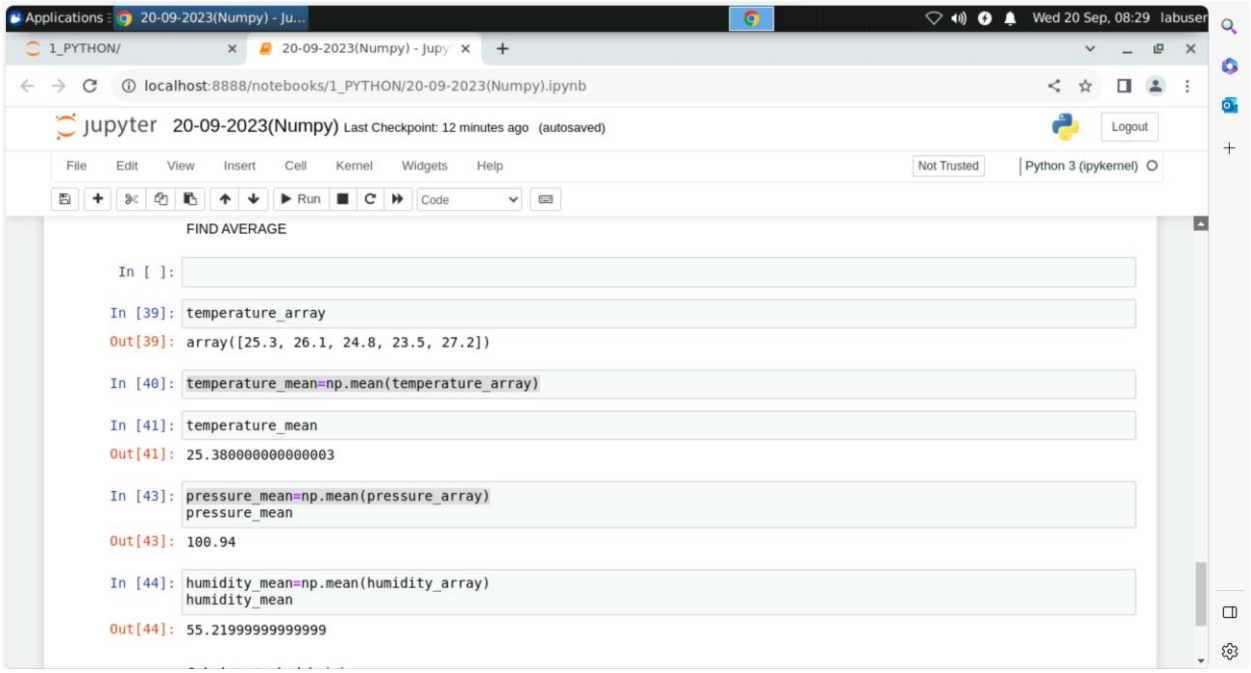
Python 3 (ipykernel)
Run
Code
In [25]: ar1=np.array([1,2,3])
ar2=np.array([4,5,6])
In [32]: ar=np.concatenate((ar1,ar2))
In [34]: ar
Out[34]: array([1, 2, 3, 4, 5, 6])
In [37]: temperature_data = [25.3, 26.1, 24.8, 23.5, 27.2]
pressure_data = [101.2, 100.8, 101.5, 100.2, 101.0]
humidity_data = [55.2, 54.8, 56.5, 53.7, 55.9]
CREATE NUMPY ARRAY
In [38]: temperature_array=np.array(temperature_data)
pressure_array=np.array(pressure_data)
humidity_array=np.array(humidity_data)
FIND AVERAGE
In [ ]: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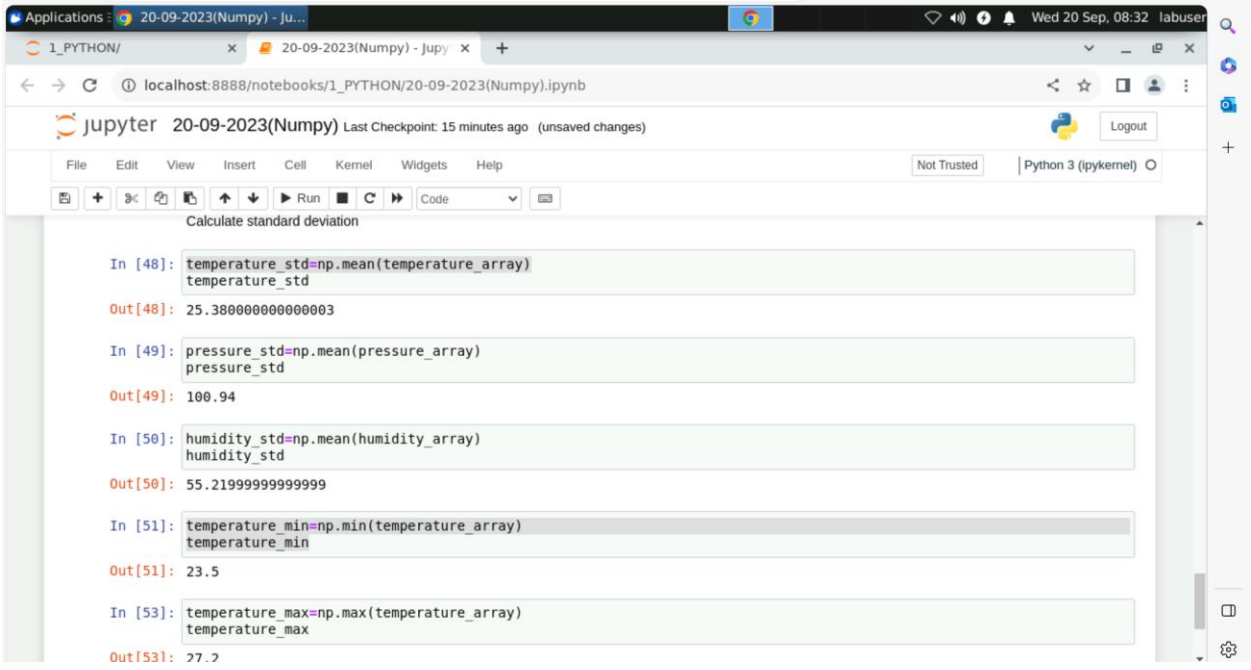
Python 3 (ipykernel)
Run
Code
FIND AVERAGE
In [ ]:
In [39]: temperature_array
Out[39]: array([25.3, 26.1, 24.8, 23.5, 27.2])
In [40]: temperature_mean=np.mean(temperature_array)
In [41]: temperature_mean
Out[41]: 25.380000000000003
In [43]: pressure_mean=np.mean(pressure_array)
pressure_mean
Out[43]: 100.94
In [44]: humidity_mean=np.mean(humidity_array)
humidity_mean
Out[44]: 55.21999999999999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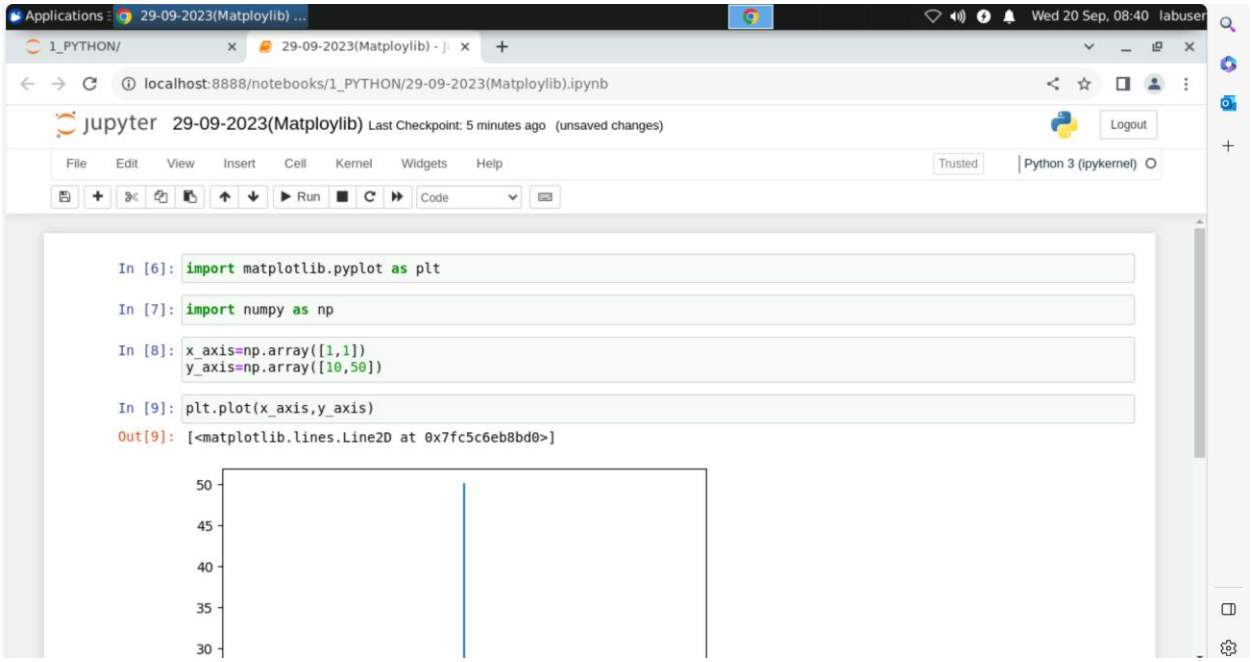
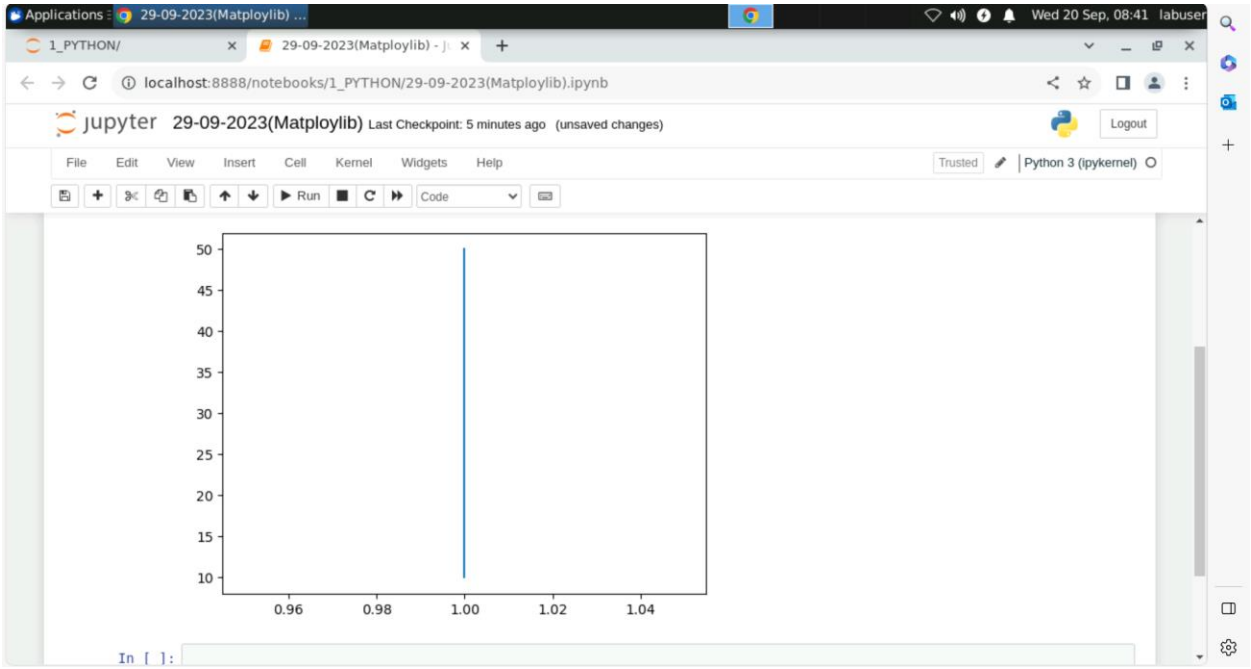
Python 3 (ipykernel)
Run
Code
Calculate standard deviation
In [48]: temperature_std=np.mean(temperature_array)
temperature_std
Out[48]: 25.380000000000003
In [49]: pressure_std=np.mean(pressure_array)
pressure_std
Out[49]: 100.94
In [50]: humidity_std=np.mean(humidity_array)
humidity_std
Out[50]: 55.21999999999999
In [51]: temperature_min=np.min(temperature_array)
temperature_min
Out[51]: 23.5
In [53]: temperature_max=np.max(temperature_array)
temperature_max
Out[53]: 27.2

https://numpy.org/devdocs/reference/index.html





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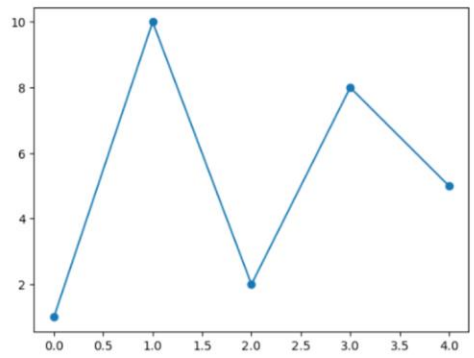
Run Code

In [13]:
```
y_point=np.array([1,10,2,8,5])
plt.plot(y_point,marker="o")
```

Out[13]: [<matplotlib.lines.Line2D at 0x7fc58d1c2ed0>]



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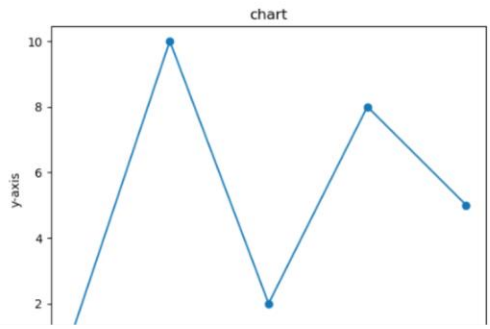
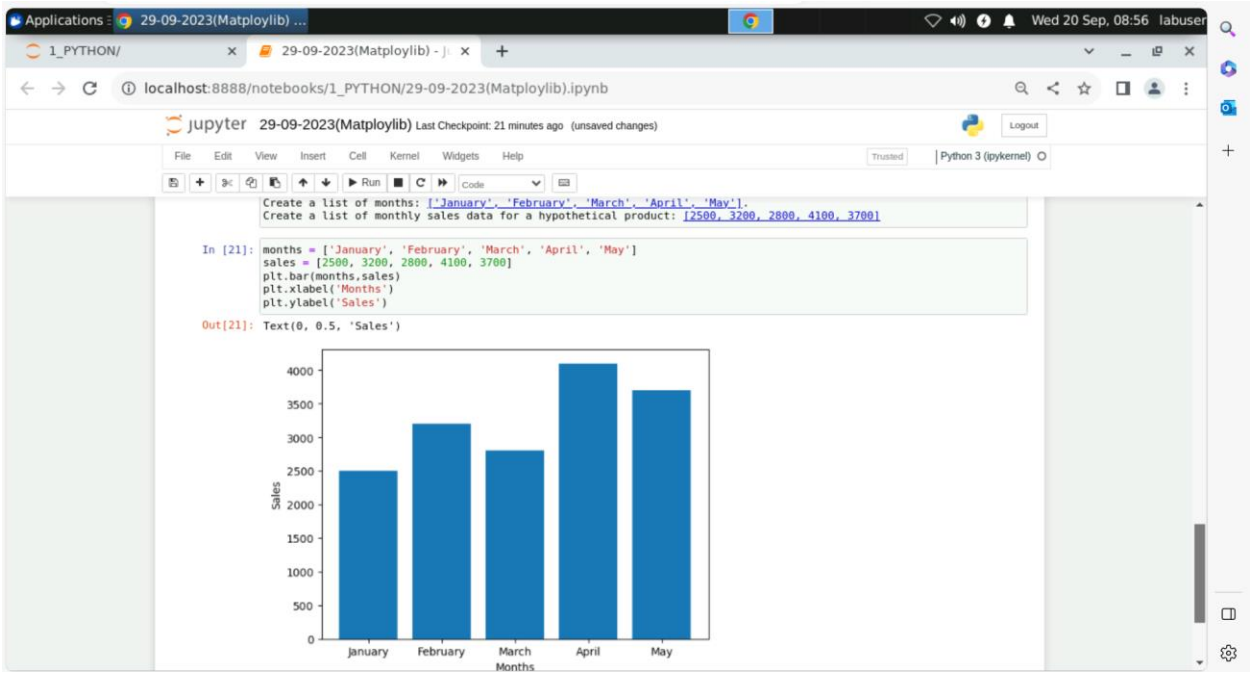
Run Code

In [17]:
```
y_point=np.array([1,10,2,8,5])
plt.plot(y_point,marker="o")
plt.xlabel("x-axis")
plt.ylabel("y-axis")
plt.title("chart")
```

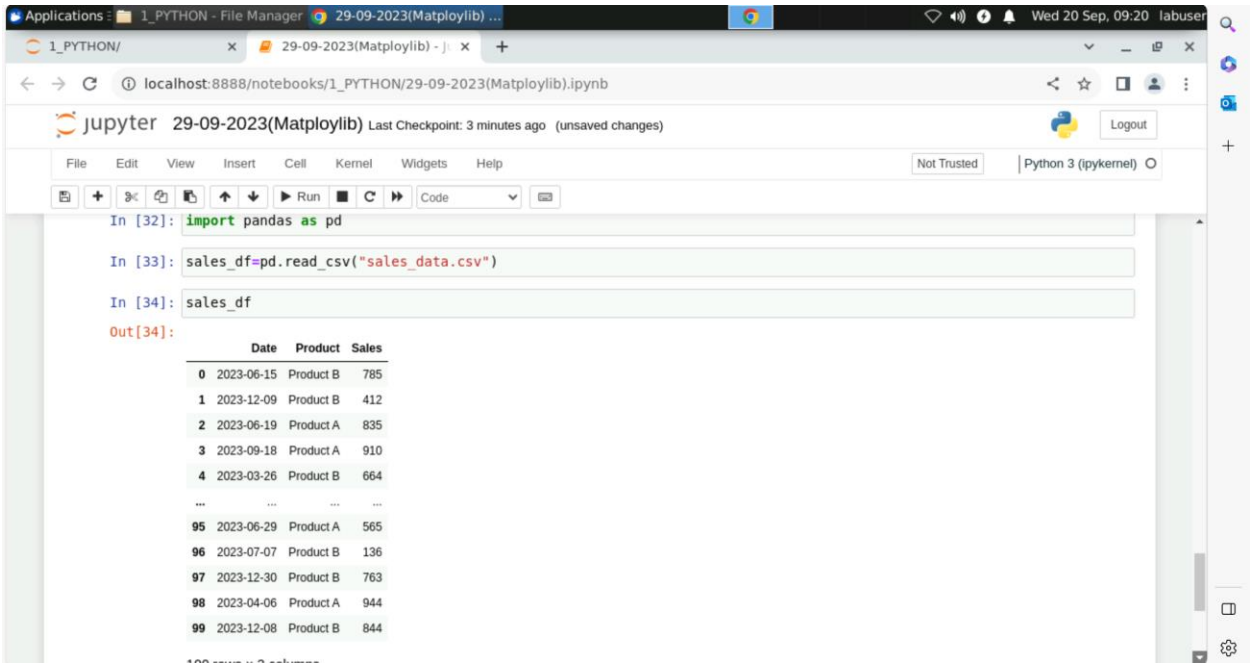
Out[17]: Text(0.5, 1.0, 'chart')

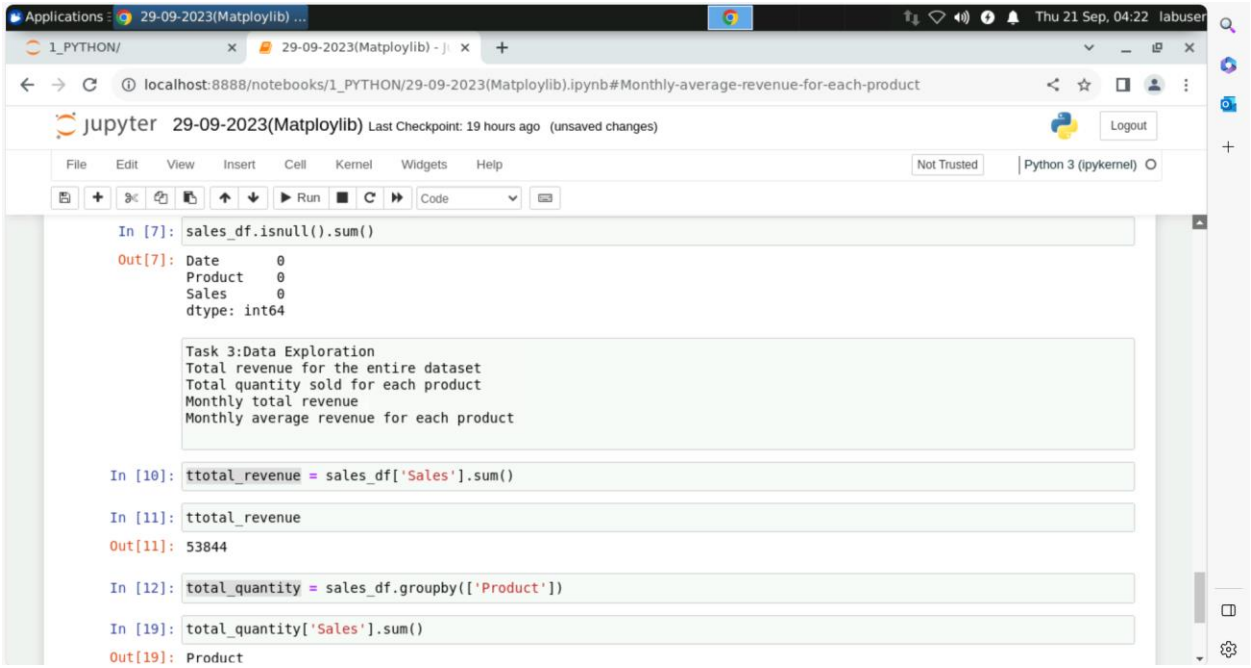




plt.savefig("Bargraph.png")

ACTIVITY:

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29-09-2023(Matplotlib) - J
localhost:8888/notebooks/1_PYTHON/29-09-2023(Matplotlib).ipynb#Monthly-average-revenue-for-each-product
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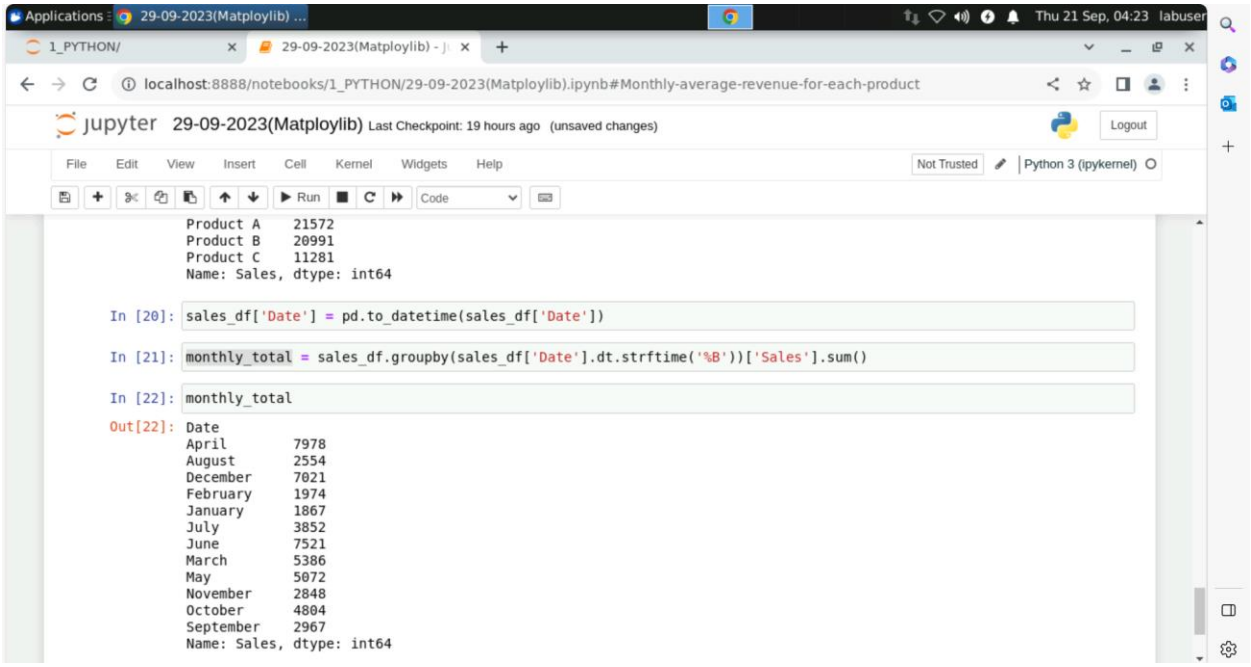
Python 3 (ipykernel)
Run
Code
In [7]: sales_df.isnull().sum()
Out[7]: Date 0
Product 0
Sales 0
dtype: int64
Task 3:Data Exploration
Total revenue for the entire dataset
Total quantity sold for each product
Monthly total revenue
Monthly average revenue for each product
In [10]: ttotal_revenue = sales_df['Sales'].sum()
In [11]: ttotal_revenue
Out[11]: 53844
In [12]: total_quantity = sales_df.groupby(['Product'])
In [19]: total_quantity['Sales'].sum()
Out[19]: Product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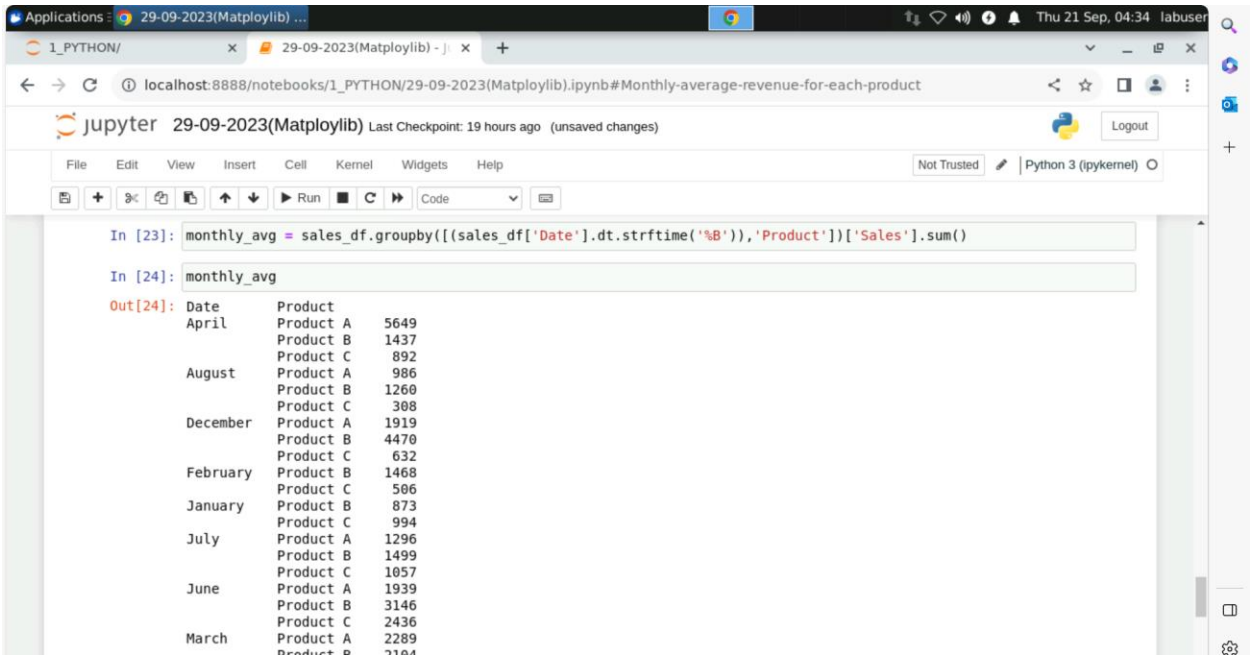
Python 3 (ipykernel)
Run
Code
Product A 21572
Product B 20991
Product C 11281
Name: Sales, dtype: int64
In [20]: sales_df['Date'] = pd.to_datetime(sales_df['Date'])
In [21]: monthly_total = sales_df.groupby(sales_df['Date'].dt.strftime('%B'))['Sales'].sum()
In [22]: monthly_total
Out[22]: Date
April 7978
August 2554
December 7021
February 1974
January 1867
July 3852
June 7521
March 5386
May 5072
November 2848
October 4804
September 2967
Name: Sales, dtype: int64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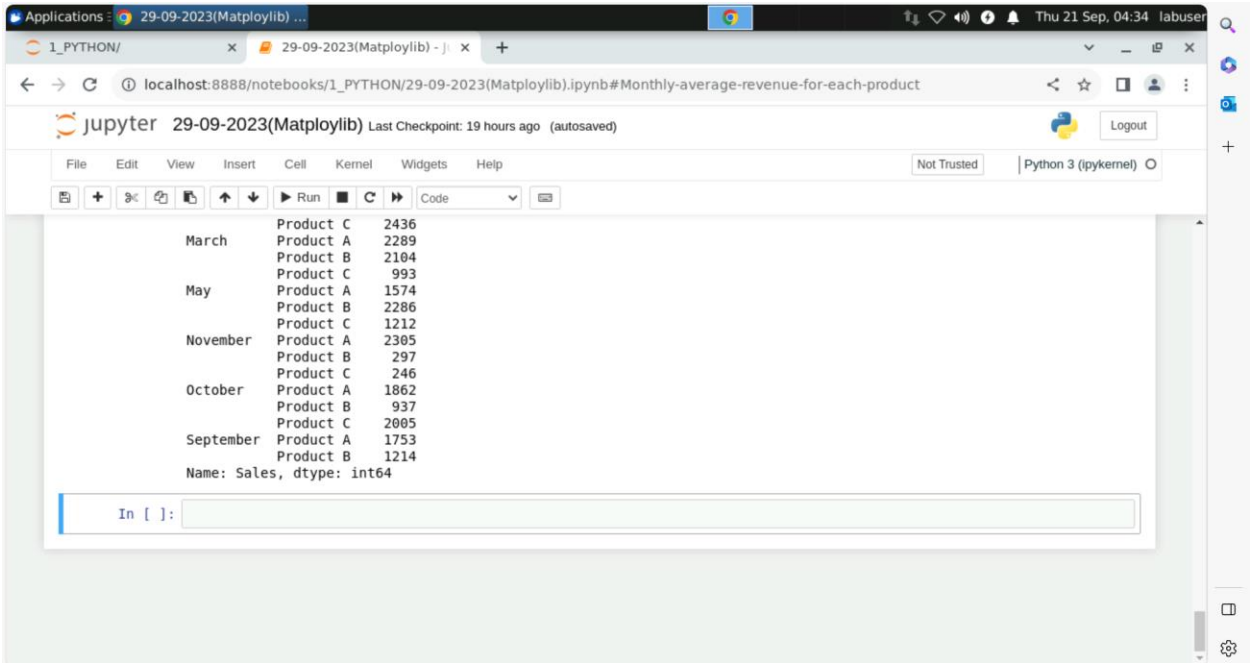
Python 3 (ipykernel)
Run
Code
In [23]: monthly_avg = sales_df.groupby([(sales_df['Date'].dt.strftime('%B')),'Product'])['Sales'].sum()
In [24]: monthly_avg
Out[24]:
Date Product
April Product A 5649
Product B 1437
Product C 892
August Product A 986
Product B 1260
Product C 308
December Product A 1919
Product B 4470
Product C 632
February Product B 1468
Product C 506
January Product B 873
Product C 994
July Product A 1296
Product B 1499
Product C 1057
June Product A 1939
Product B 3146
Product C 2436
March Product A 2289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Python 3 (ipykernel)
Run
Code
Product C 2436
March Product A 2289
Product B 2104
Product C 993
May Product A 1574
Product B 2286
Product C 1212
November Product A 2305
Product B 297
Product C 246
October Product A 1862
Product B 937
Product C 2005
September Product A 1753
Product B 1214
Name: Sales, dtype: int64
In [ ]: