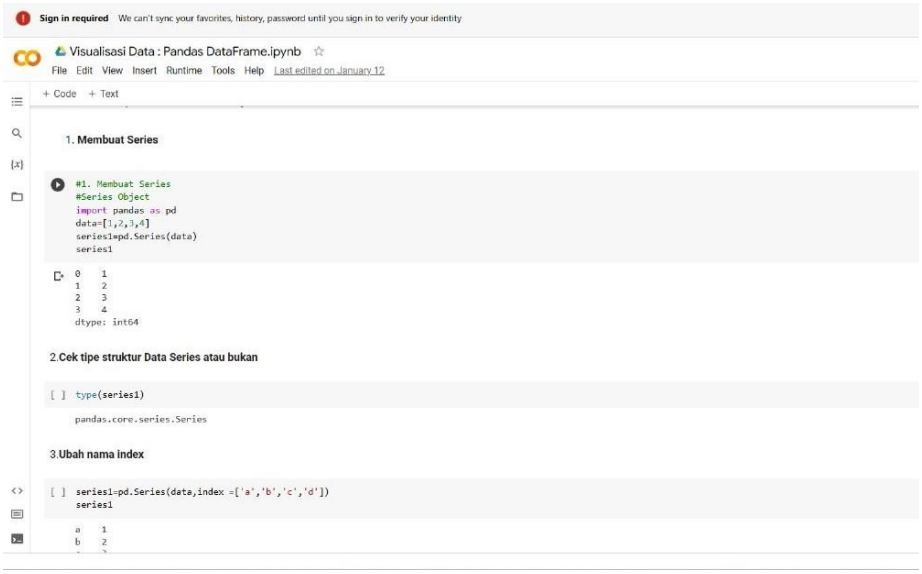
Nama : I Nengah Ariya Subawa

Nim : 211001067

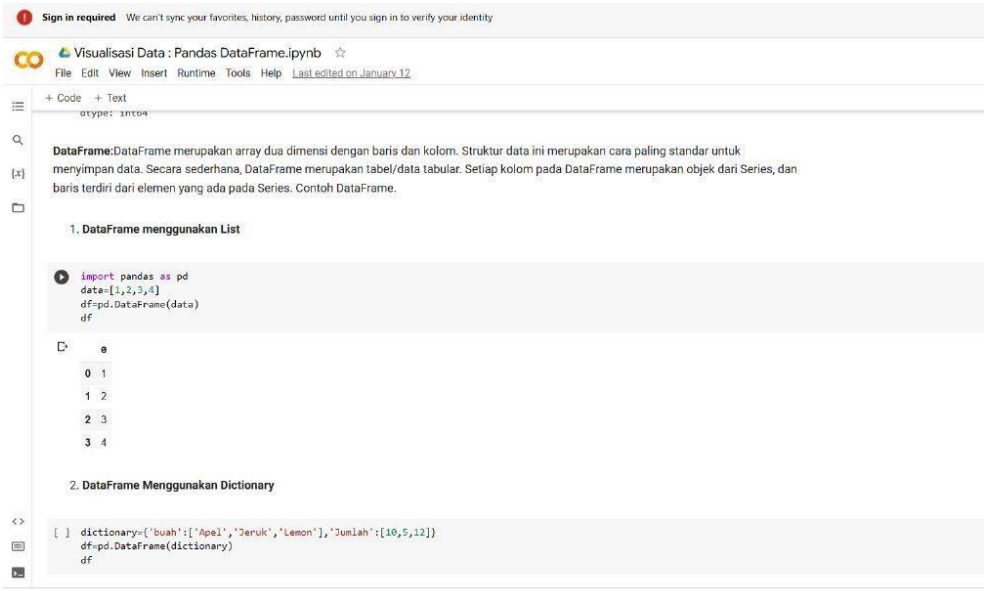
Kelas : D

Task 5 Modul 3

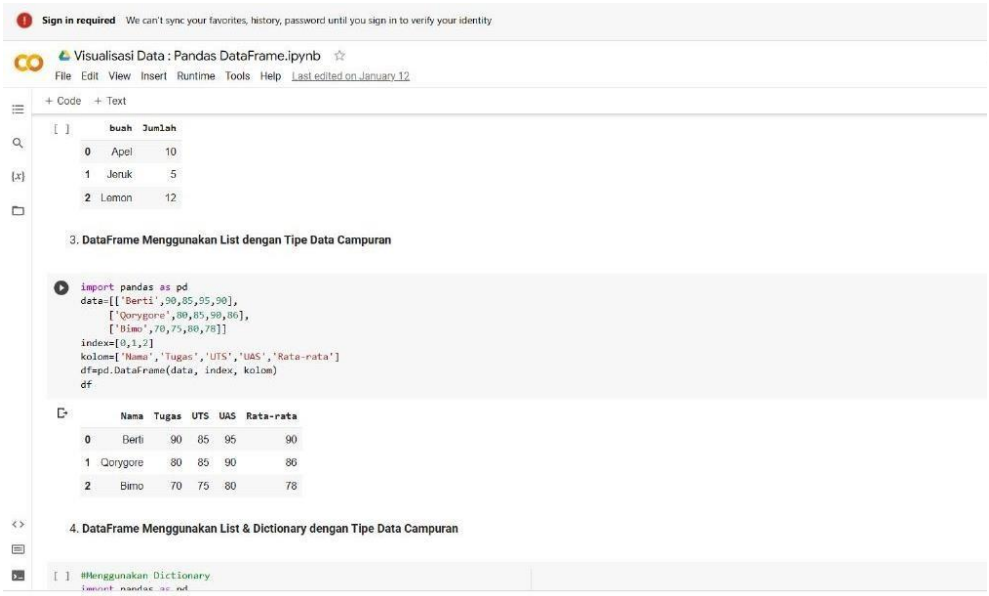
1.



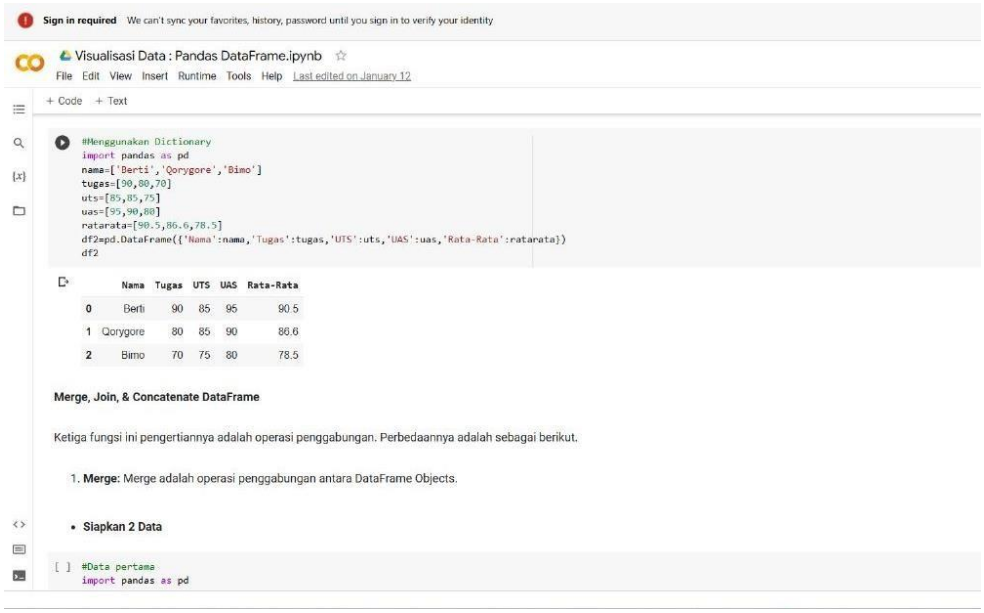
2.



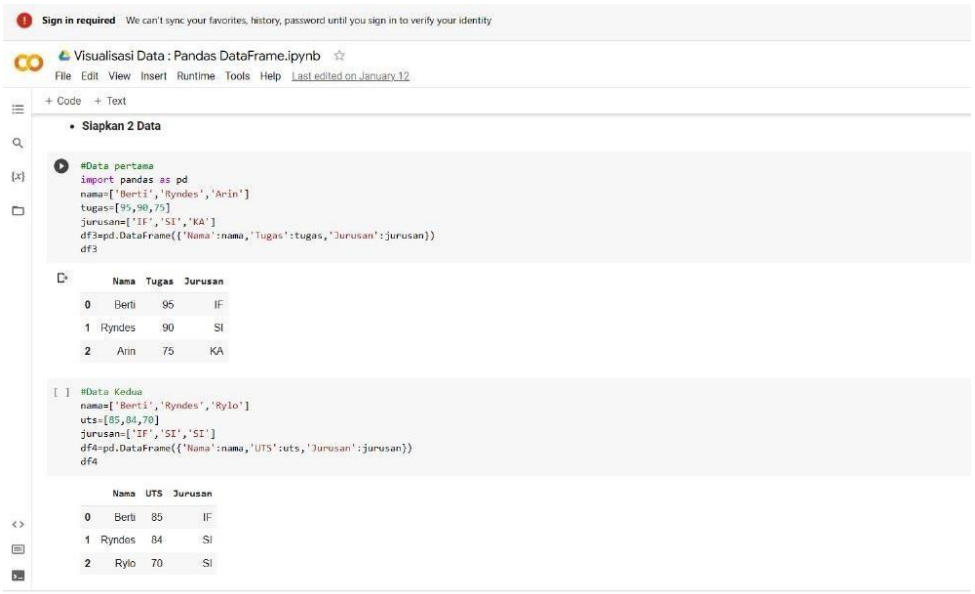
3.


Sign in required We can't sync your favorites, history, password until you sign in to verify your identity
Visualisasi Data : Pandas DataFrame.ipynb
File Edit View Insert Runtime Tools Help Last edited on January 12
+ Code + Text
buah Jumlah
0 Apel 10
1 Jeruk 5
2 Lemon 12
3. DataFrame Menggunakan List dengan Tipe Data Campuran
import pandas as pd
data=[['Berti',90,85,95,90],
['Qorygore',80,85,90,86],
['Bimo',70,75,80,78]]
index=[0,1,2]
kolom=['Nama','Tugas','UTS','UAS','Rata-rata']
df=pd.DataFrame(data, index, kolom)
df
Nama Tugas UTS UAS Rata-rata
0 Berti 90 85 95 90
1 Qorygore 80 85 90 86
2 Bimo 70 75 80 78
4. DataFrame Menggunakan List & Dictionary dengan Tipe Data Campuran
#Menggunakan Dictionary
import pandas as pd

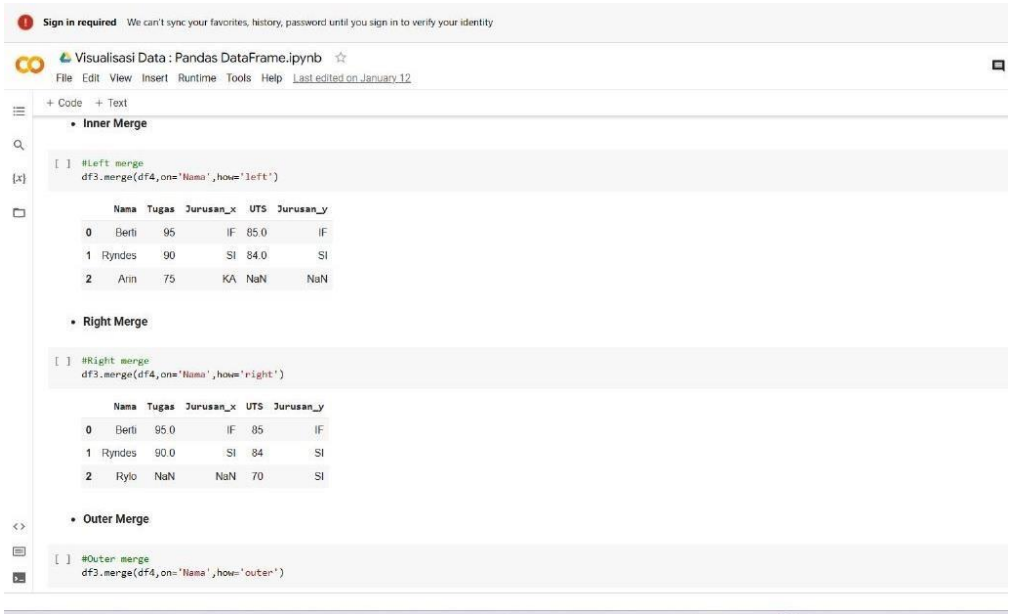
4.


Sign in required We can't sync your favorites, history, password until you sign in to verify your identity
Visualisasi Data : Pandas DataFrame.ipynb
File Edit View Insert Runtime Tools Help Last edited on January 12
+ Code + Text
#Menggunakan Dictionary
import pandas as pd
nama=['Berti','Qorygore','Bimo']
tugas=[90,80,70]
uts=[85,85,75]
uas=[95,90,80]
ratarata=[90.5,86.6,78.5]
df2=pd.DataFrame({'Nama':nama,'Tugas':tugas,'UTS':uts,'UAS':uas,'Rata-Rata':ratarata})
df2
Nama Tugas UTS UAS Rata-Rata
0 Berti 90 85 95 90.5
1 Qorygore 80 85 90 86.6
2 Bimo 70 75 80 78.5
Merge, Join, & Concatenate DataFrame
Ketiga fungsi ini pengertiannya adalah operasi penggabungan. Perbedaannya adalah sebagai berikut.
1. Merge: Merge adalah operasi penggabungan antara DataFrame Objects.
• Siapkan 2 Data
#Data pertama
import pandas as pd

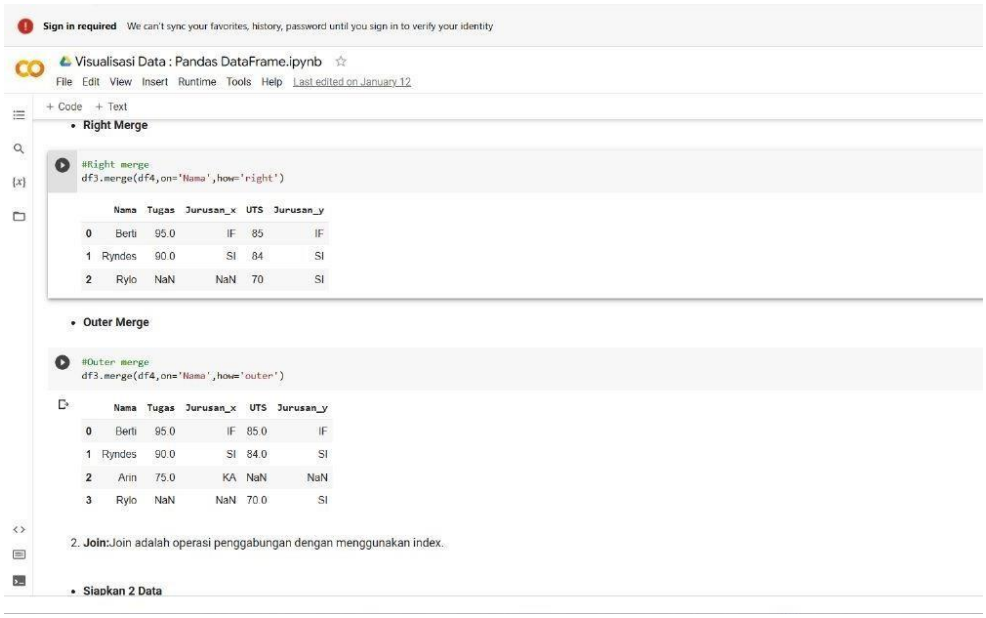
5.


Sign in required We can't sync your favorites, history, password until you sign in to verify your identity
Visualisasi Data : Pandas DataFrame.ipynb
File Edit View Insert Runtime Tools Help Last edited on January 12
+ Code + Text
• Siapkan 2 Data
#Data pertama
import pandas as pd
nama=['Berti','Ryndes','Arin']
tugas=[95,90,75]
jurusan=['IF','SI','KA']
df3=pd.DataFrame({'Nama':nama,'Tugas':tugas,'Jurusan':jurusan})
df3
Nama Tugas Jurusan
0 Berti 95 IF
1 Ryndes 90 SI
2 Arin 75 KA
#Data Kedua
nama=['Berti','Ryndes','Rylo']
uts=[85,84,70]
jurusan=['IF','SI','SI']
df4=pd.DataFrame({'Nama':nama,'UTS':uts,'Jurusan':jurusan})
df4
Nama UTS Jurusan
0 Berti 85 IF
1 Ryndes 84 SI
2 Rylo 70 SI

6.


Sign in required We can't sync your favorites, history, password until you sign in to verify your identity
Visualisasi Data : Pandas DataFrame.ipynb
File Edit View Insert Runtime Tools Help Last edited on January 12
+ Code + Text
• Inner Merge
#Left merge
df3.merge(df4,on='Nama',how='left')
Nama Tugas Jurusan_x UTS Jurusan_y
0 Berti 95 IF 85.0 IF
1 Ryndes 90 SI 84.0 SI
2 Arin 75 KA NaN NaN
• Right Merge
#Right merge
df3.merge(df4,on='Nama',howm'right')
Nama Tugas Jurusan_x UTS Jurusan_y
0 Berti 95.0 IF 85 IF
1 Ryndes 90.0 SI 84 SI
2 Rylo NaN NaN 70 SI
• Outer Merge
#Outer merge
df3.merge(df4,on='Nama',how='outer')

7.


Sign in required We can't sync your favorites, history, password until you sign in to verify your identity
Visualisasi Data : Pandas DataFrame.ipynb
File Edit View Insert Runtime Tools Help Last edited on January 12
+ Code + Text
• Right Merge
#Right merge
df3.merge(df4,on='Nama',how='right')
Nama Tugas Jurusan_x UTS Jurusan_y
0 Berti 95.0 IF 85 IF
1 Ryndes 90.0 SI 84 SI
2 Rylo NaN NaN 70 SI
• Outer Merge
#Outer merge
df3.merge(df4,on='Nama',how='outer')
Nama Tugas Jurusan_x UTS Jurusan_y
0 Berti 95.0 IF 85.0 IF
1 Ryndes 90.0 SI 84.0 SI
2 Ann 75.0 KA NaN NaN
3 Rylo NaN NaN 70.0 SI
2. Join:Join adalah operasi penggabungan dengan menggunakan index.
• Siapkan 2 Data