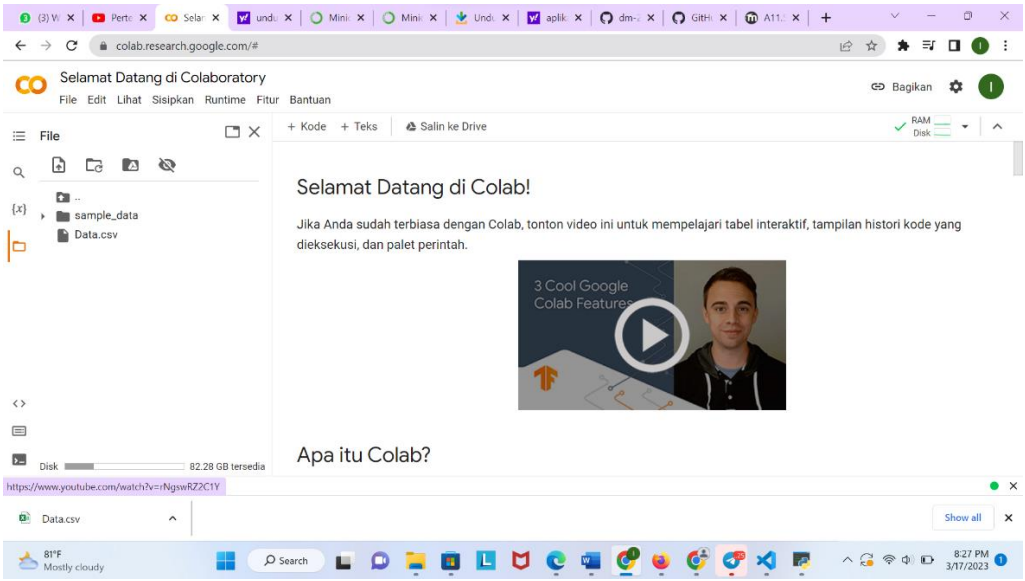
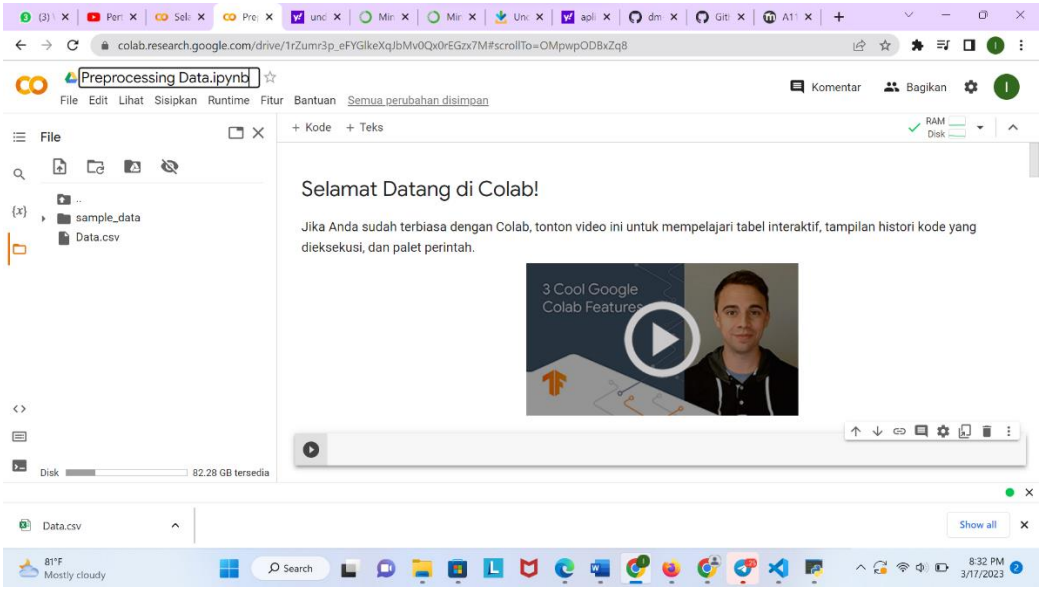
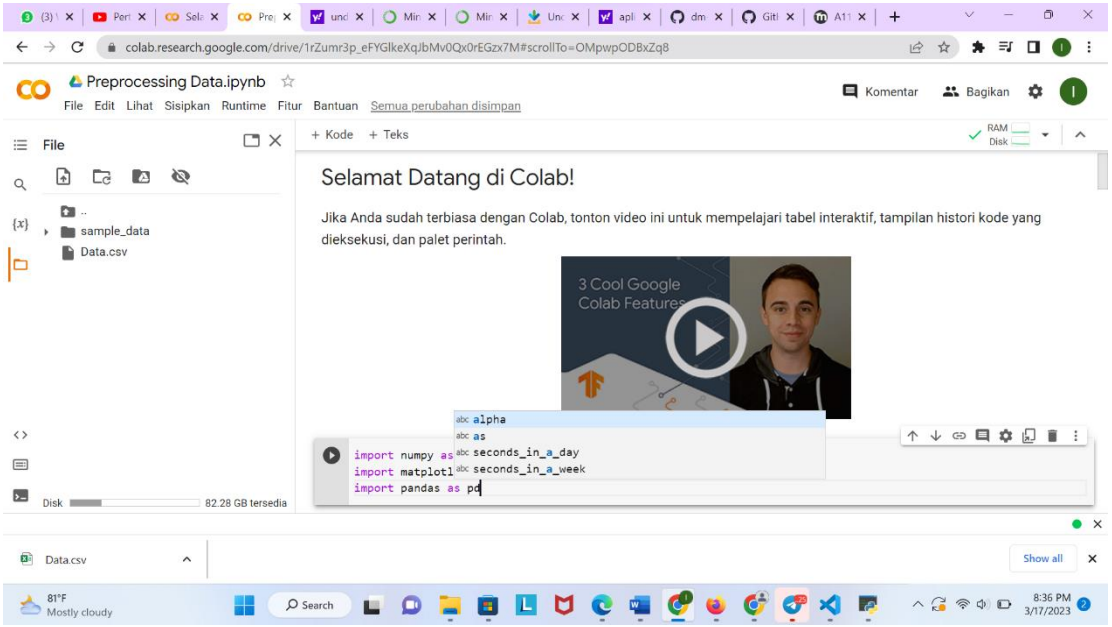
Nama : Iqlima Syahwa

Nim : A11.2020.12799

Kelompok : 4404



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Selamat Datang di Colab!
Jika Anda sudah terbiasa dengan Colab, tonton video ini untuk mempelajari tabel interaktif, tampilan histori kode yang dieksekusi, dan palet perintah.
3 Cool Google Colab Features
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import numpy as
import matplotl
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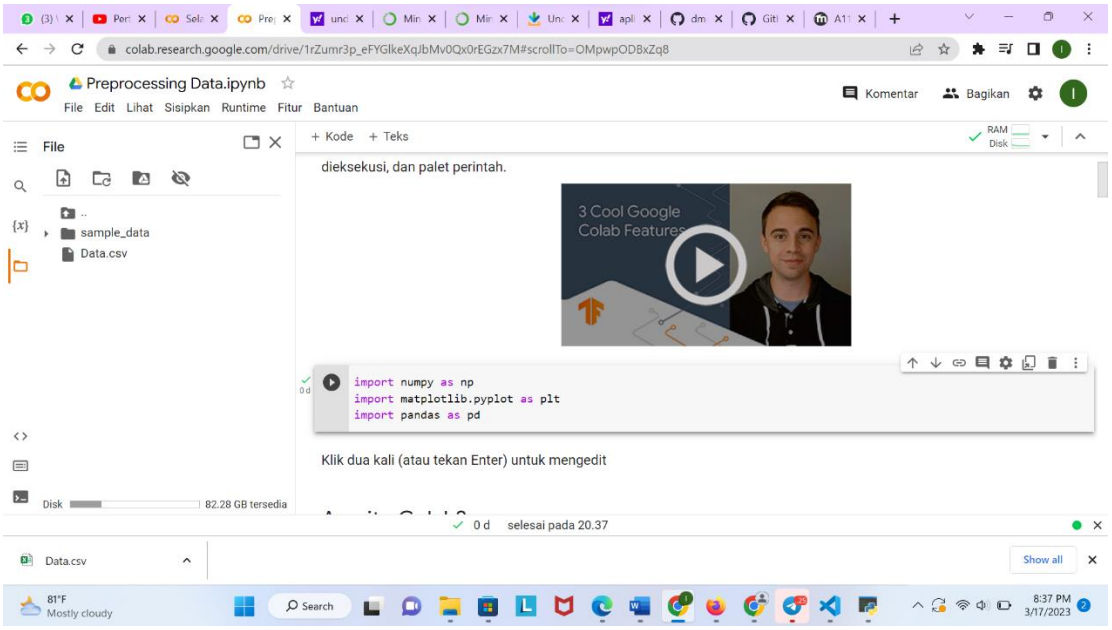
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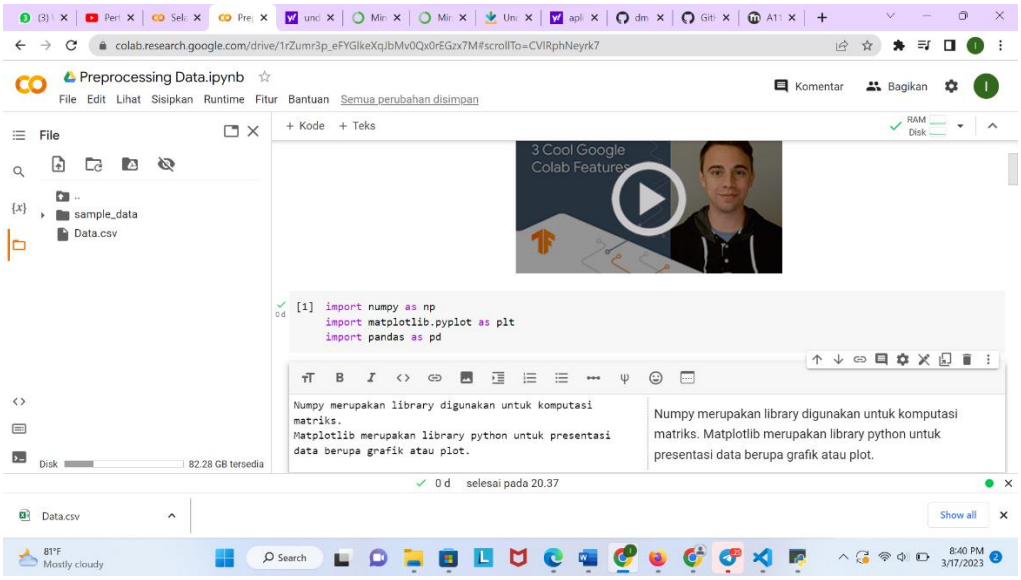
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3 Cool Google Colab Features
[1] import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
Numpy merupakan library digunakan untuk komputasi matriks.
Matplotlib merupakan library python untuk presentasi data berupa grafik atau plot.
Numpy merupakan library digunakan untuk komputasi matriks. Matplotlib merupakan library python untuk presentasi data berupa grafik atau plot.
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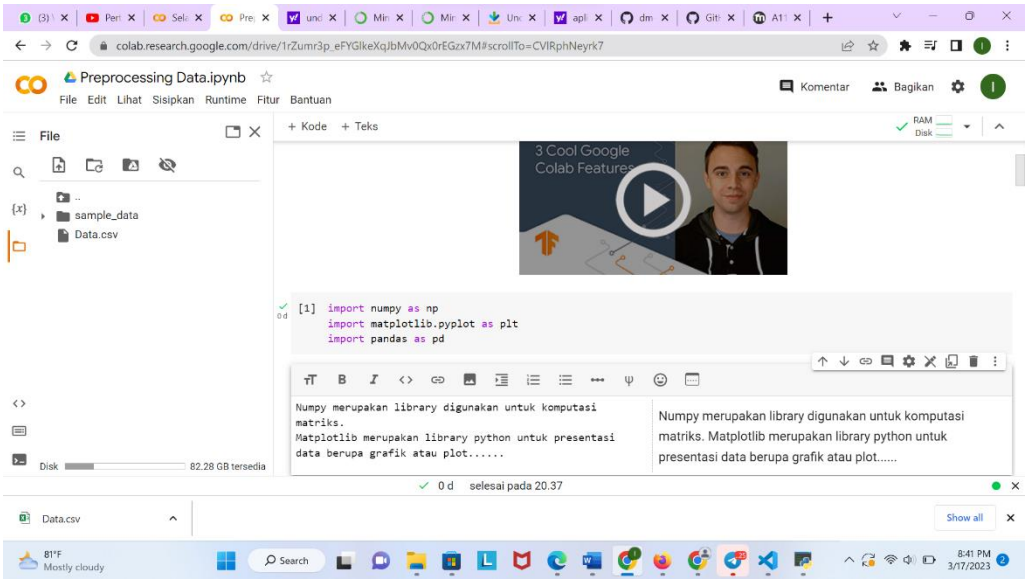
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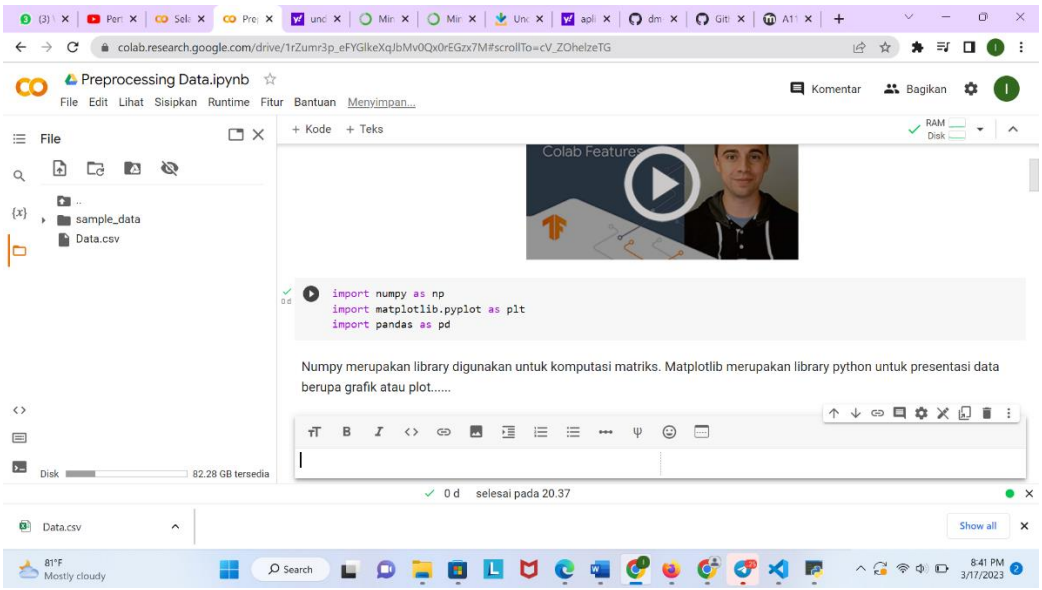
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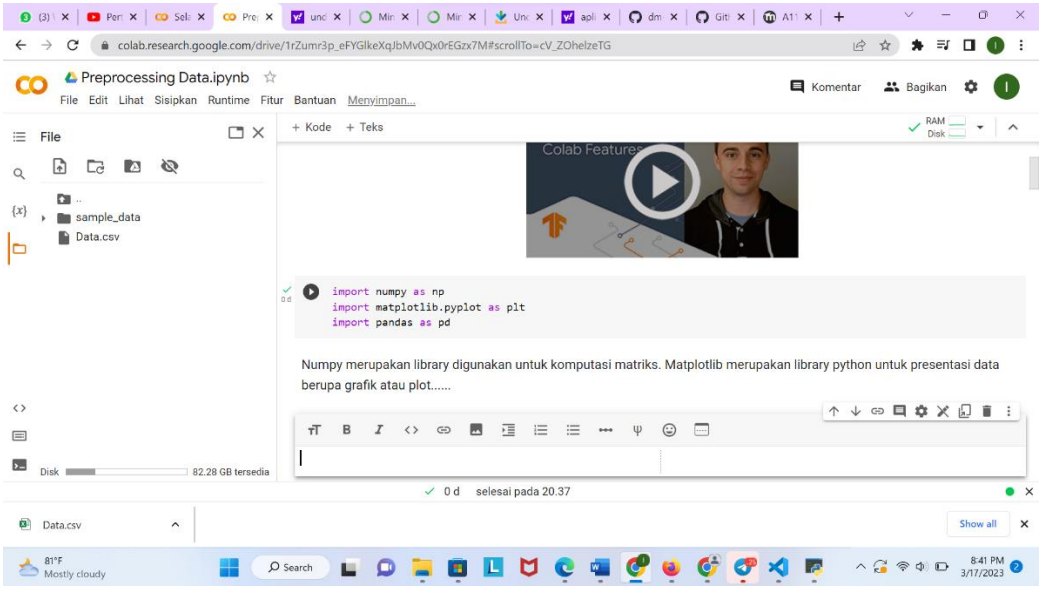
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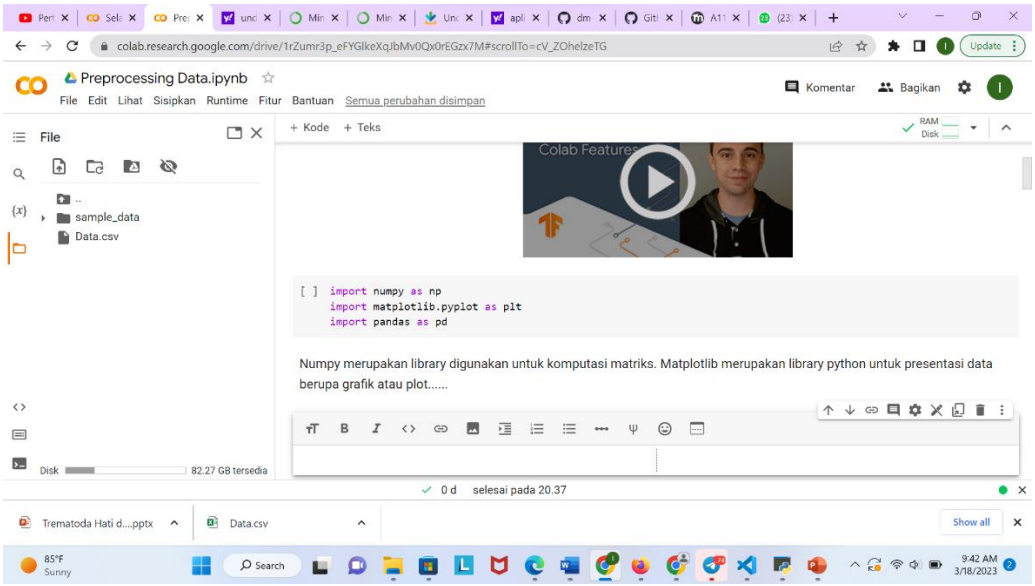
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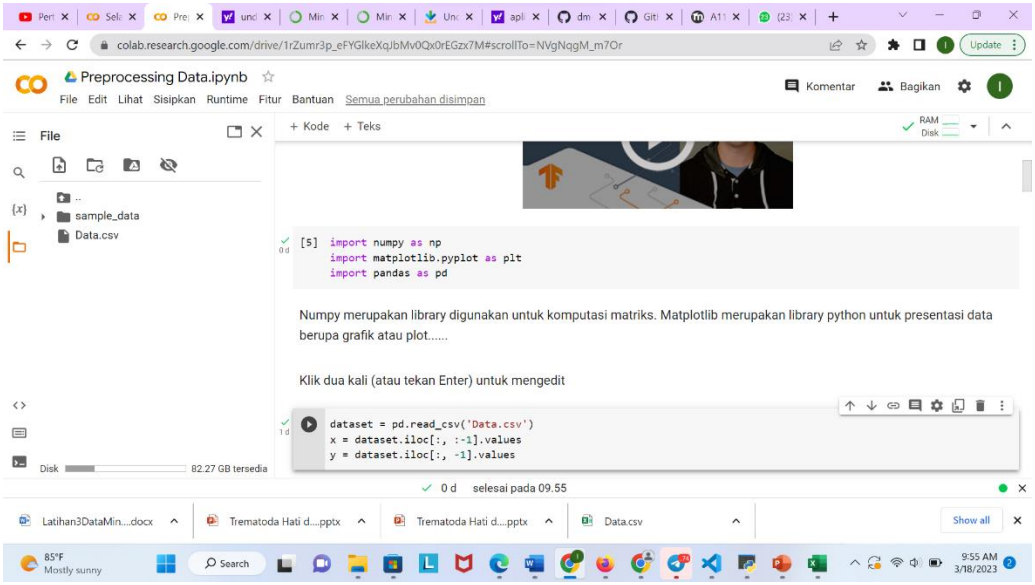
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[5] import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
Numpy merupakan library digunakan untuk komputasi matriks. Matplotlib merupakan library python untuk presentasi data berupa grafik atau plot.....
Klik dua kali (atau tekan Enter) untuk mengedit
dataset = pd.read_csv('Data.csv')
x = dataset.iloc[:, :-1].values
y = dataset.iloc[:, -1].values
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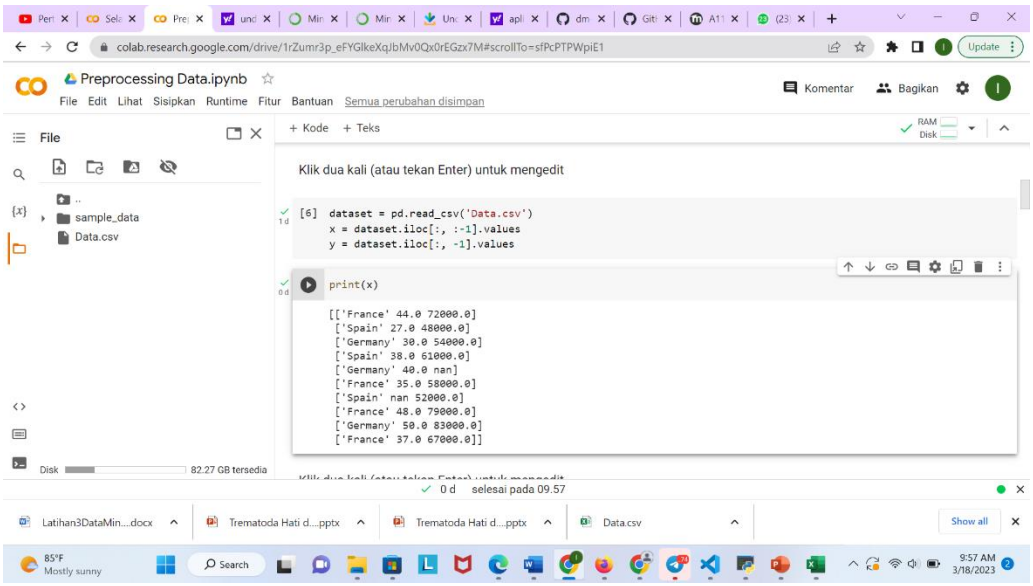
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Klik dua kali (atau tekan Enter) untuk mengedit
[6] dataset = pd.read_csv('Data.csv')
x = dataset.iloc[:, :-1].values
y = dataset.iloc[:, -1].values
print(x)
[['France' 44.0 72000.0]
['Spain' 27.0 48000.0]
['Germany' 30.0 54000.0]
['Spain' 38.0 61000.0]
['Germany' 40.0 nan]
['France' 35.0 58000.0]
['Spain' nan 52000.0]
['France' 48.0 79000.0]
['Germany' 50.0 83000.0]
['France' 37.0 67000.0]]
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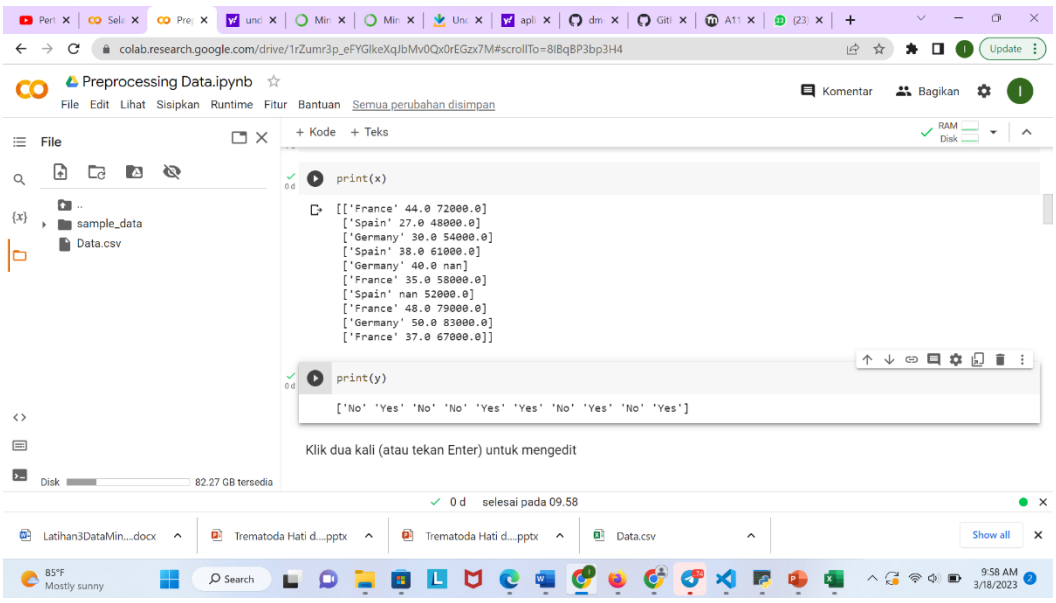
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print(x)
[['France' 44.0 72000.0]
['Spain' 27.0 48000.0]
['Germany' 30.0 54000.0]
['Spain' 38.0 61000.0]
['Germany' 40.0 nan]
['France' 35.0 58000.0]
['Spain' nan 52000.0]
['France' 48.0 79000.0]
['Germany' 50.0 83000.0]
['France' 37.0 67000.0]]
print(y)
['No' 'Yes' 'No' 'No' 'Yes' 'Yes' 'No' 'Yes' 'No' 'Yes']
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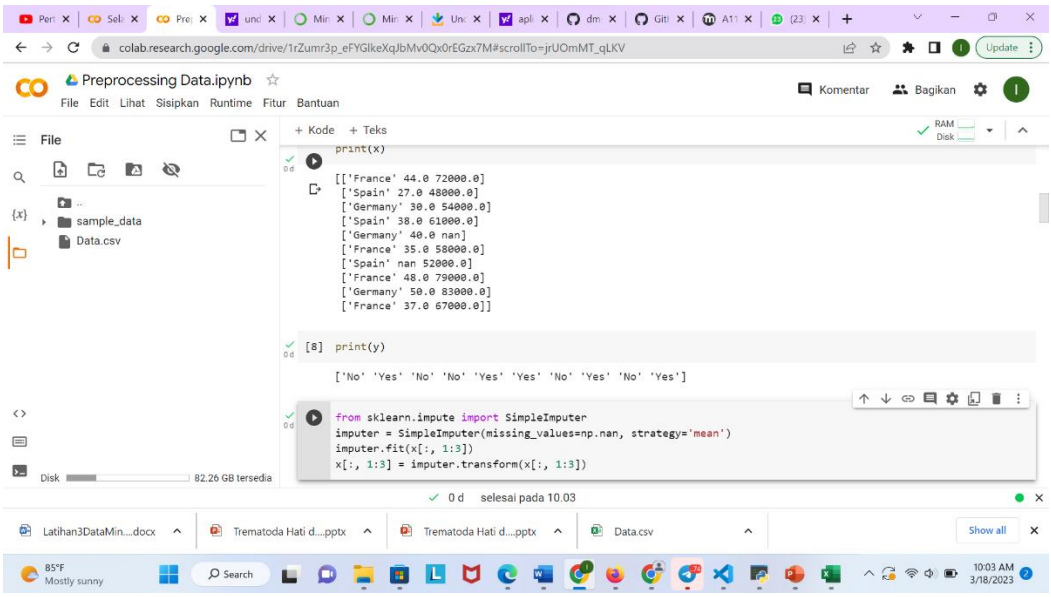
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print(x)
[['France' 44.0 72000.0]
['Spain' 27.0 48000.0]
['Germany' 30.0 54000.0]
['Spain' 38.0 61000.0]
['Germany' 40.0 nan]
['France' 35.0 58000.0]
['Spain' nan 52000.0]
['France' 48.0 79000.0]
['Germany' 50.0 83000.0]
['France' 37.0 67000.0]]
[8] print(y)
['No' 'Yes' 'No' 'No' 'Yes' 'Yes' 'No' 'Yes' 'No' 'Yes']
from sklearn.impute import SimpleImputer
imputer = SimpleImputer(missing_values=np.nan, strategy='mean')
imputer.fit(x[:, 1:3])
x[:, 1:3] = imputer.transform(x[:, 1:3])
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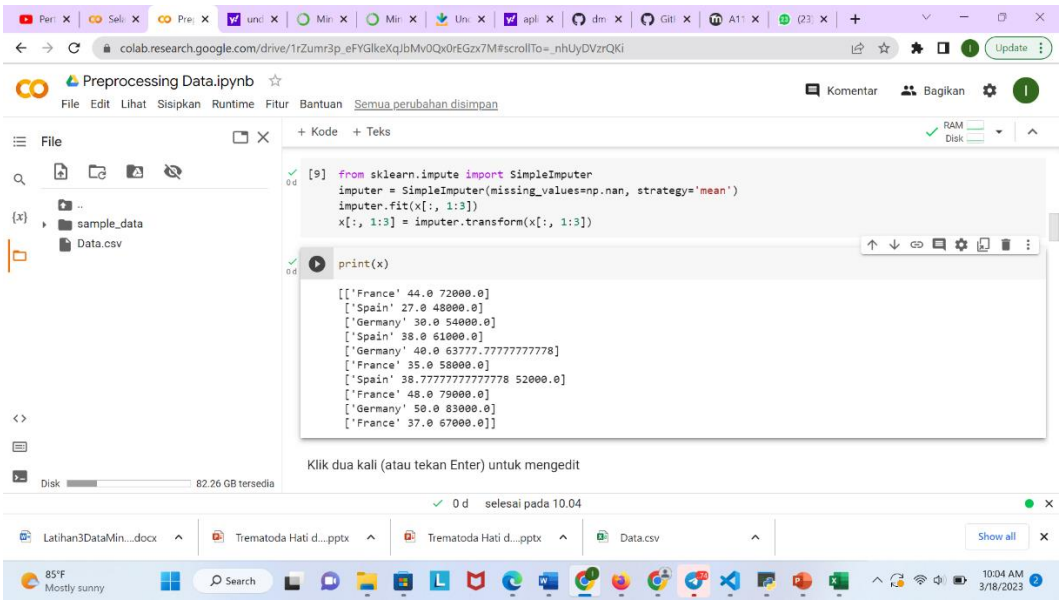
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[9] from sklearn.impute import SimpleImputer
imputer = SimpleImputer(missing_values=np.nan, strategy='mean')
imputer.fit(x[:, 1:3])
x[:, 1:3] = imputer.transform(x[:, 1:3])
print(x)
[['France' 44.0 72000.0]
['Spain' 27.0 48000.0]
['Germany' 30.0 54000.0]
['Spain' 38.0 61000.0]
['Germany' 40.0 63777.7777777778]
['France' 35.0 58000.0]
['Spain' 38.77777777777778 52000.0]
['France' 48.0 79000.0]
['Germany' 50.0 83000.0]
['France' 37.0 67000.0]]
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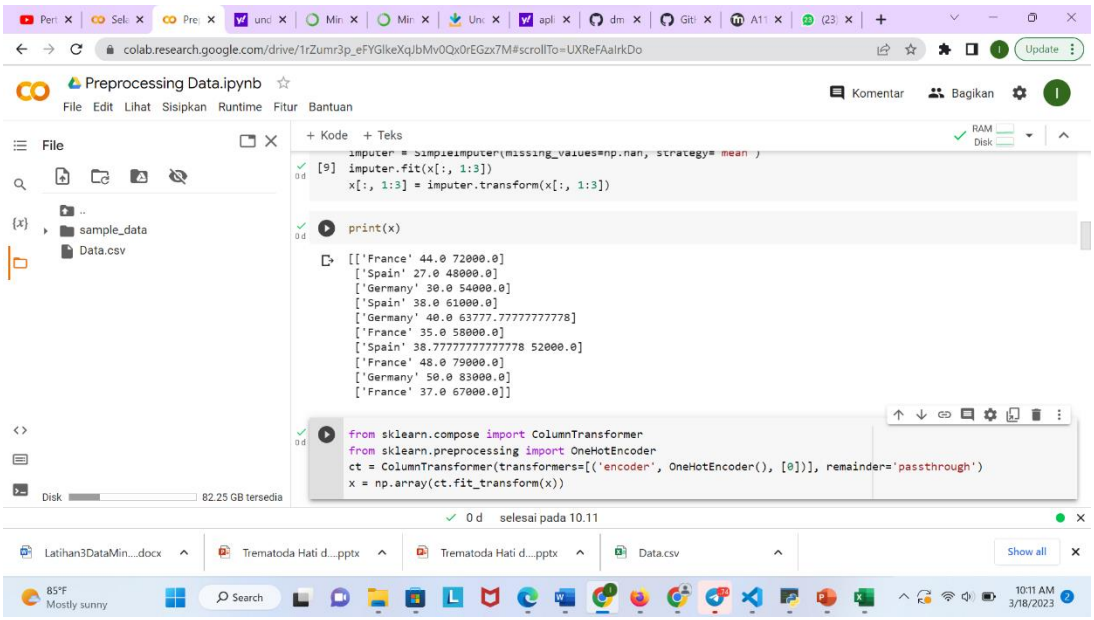
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[9] imputer.fit(x[:, 1:3])
x[:, 1:3] = imputer.transform(x[:, 1:3])
print(x)
[['France' 44.0 72000.0]
['Spain' 27.0 48000.0]
['Germany' 30.0 54000.0]
['Spain' 38.0 61000.0]
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['France' 35.0 58000.0]
['Spain' 38.77777777777778 52000.0]
['France' 48.0 79000.0]
['Germany' 50.0 83000.0]
['France' 37.0 67000.0]]
from sklearn.compose import ColumnTransformer
from sklearn.preprocessing import OneHotEncoder
ct = ColumnTransformer(transformers=[('encoder', OneHotEncoder(), [0])], remainder='passthrough')
x = np.array(ct.fit_transform(x))
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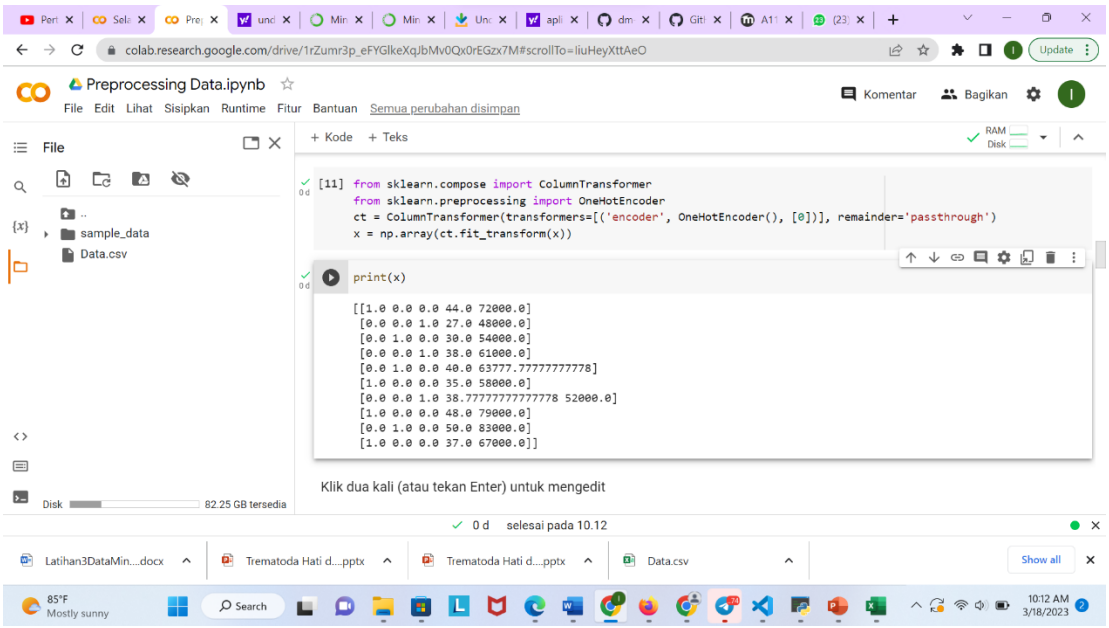
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[11] from sklearn.compose import ColumnTransformer
from sklearn.preprocessing import OneHotEncoder
ct = ColumnTransformer(transformers=[('encoder', OneHotEncoder(), [0])], remainder='passthrough')
x = np.array(ct.fit_transform(x))
print(x)
[[1.0 0.0 0.0 44.0 72000.0]
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[0.0 1.0 0.0 40.0 63777.77777777778]
[1.0 0.0 0.0 35.0 58000.0]
[0.0 0.0 1.0 38.77777777777778 52000.0]
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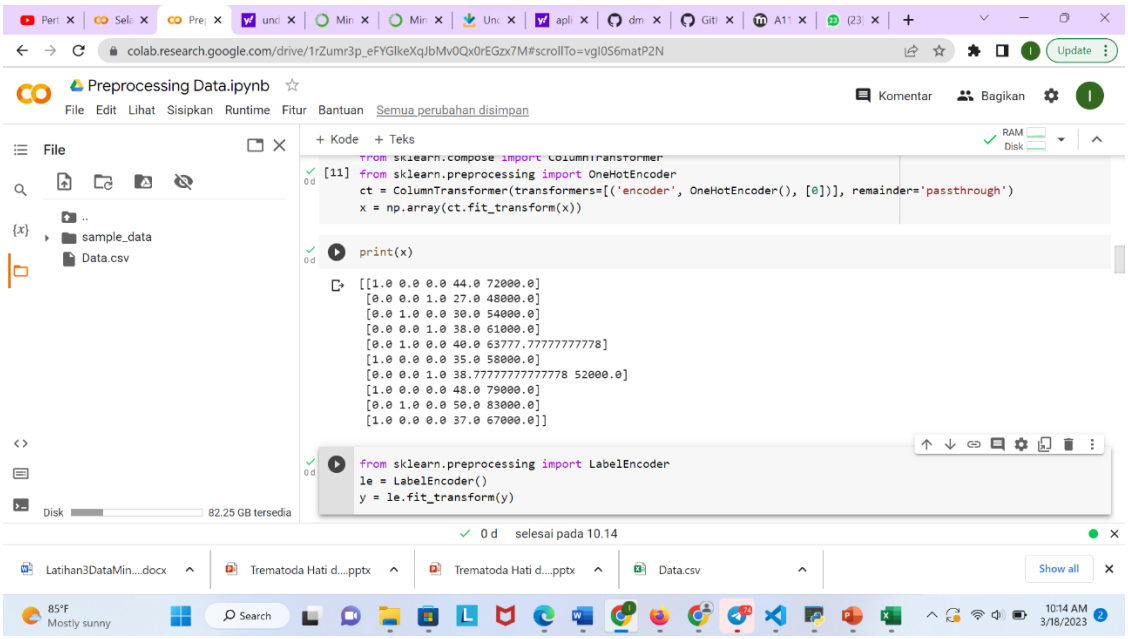
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[11] from sklearn.preprocessing import OneHotEncoder
ct = ColumnTransformer(transformers=[('encoder', OneHotEncoder(), [0])], remainder='passthrough')
x = np.array(ct.fit_transform(x))
print(x)
[[1.0 0.0 0.0 44.0 72000.0]
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[1.0 0.0 0.0 48.0 79000.0]
[0.0 1.0 0.0 50.0 83000.0]
[1.0 0.0 0.0 37.0 67000.0]]
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
y = le.fit_transform(y)
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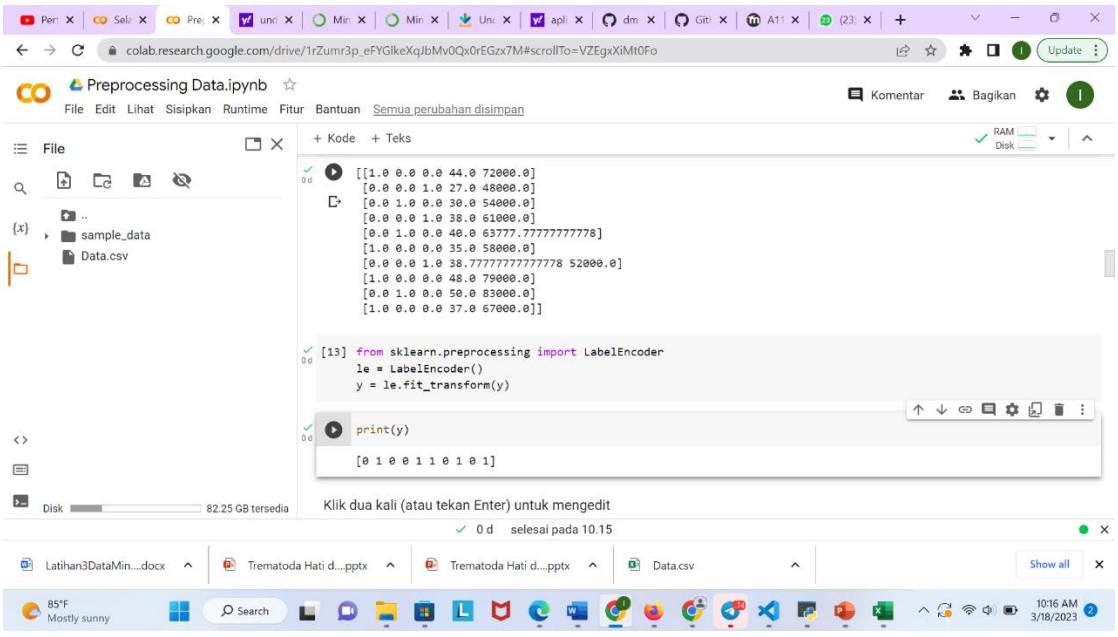
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[1.0 0.0 0.0 48.0 79000.0]
[0.0 1.0 0.0 50.0 83000.0]
[1.0 0.0 0.0 37.0 67000.0]]
[13] from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
y = le.fit_transform(y)
print(y)
[0 1 0 0 1 1 0 1 0 1]
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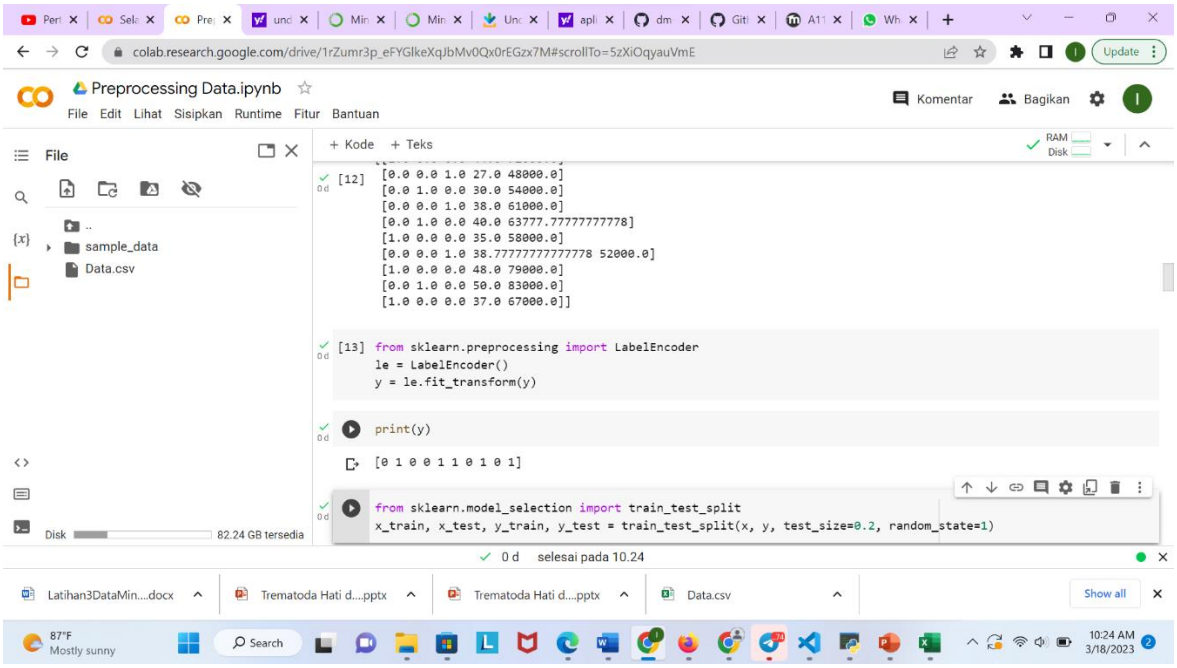
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[12] [0.0 0.0 1.0 27.0 48000.0]
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[1.0 0.0 0.0 48.0 79000.0]
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[1.0 0.0 0.0 37.0 67000.0]]
[13] from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
y = le.fit_transform(y)
print(y)
[0 1 0 0 1 1 0 1 0 1]
from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=1)
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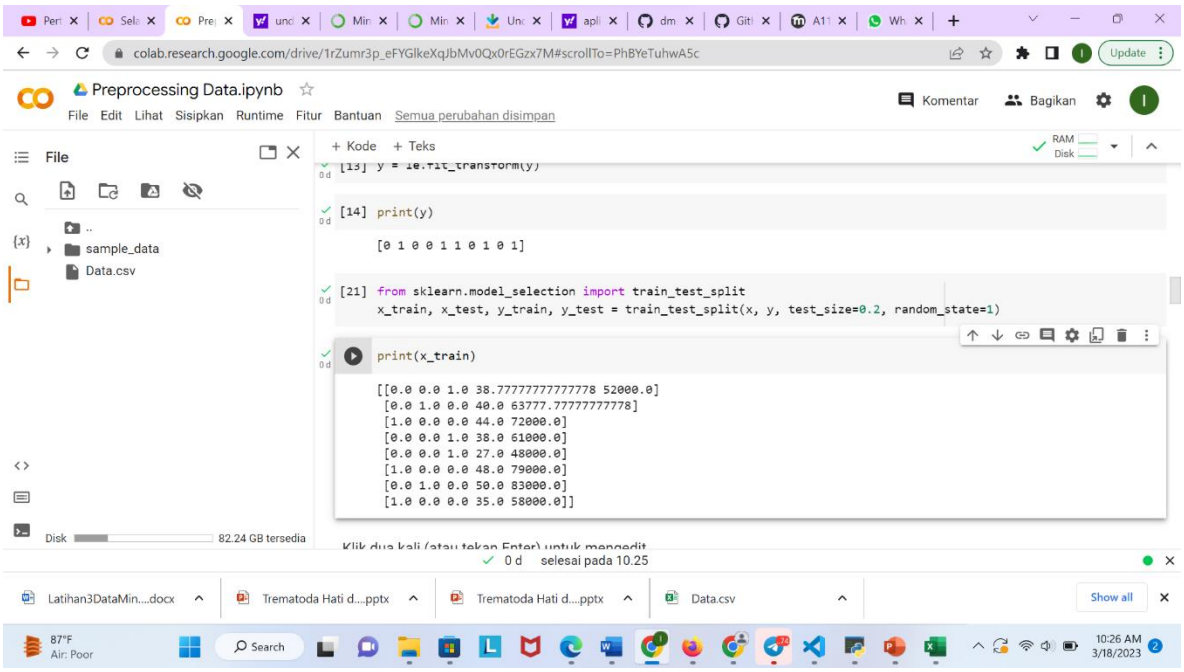
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[14] print(y)
[0 1 0 0 1 1 0 1 0 1]
[21] from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=1)
print(x_train)
[[0.0 0.0 1.0 38.77777777777778 52000.0]
[0.0 1.0 0.0 40.0 63777.77777777778]
[1.0 0.0 0.0 44.0 72000.0]
[0.0 0.0 1.0 38.0 61000.0]
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[0.0 1.0 0.0 50.0 83000.0]
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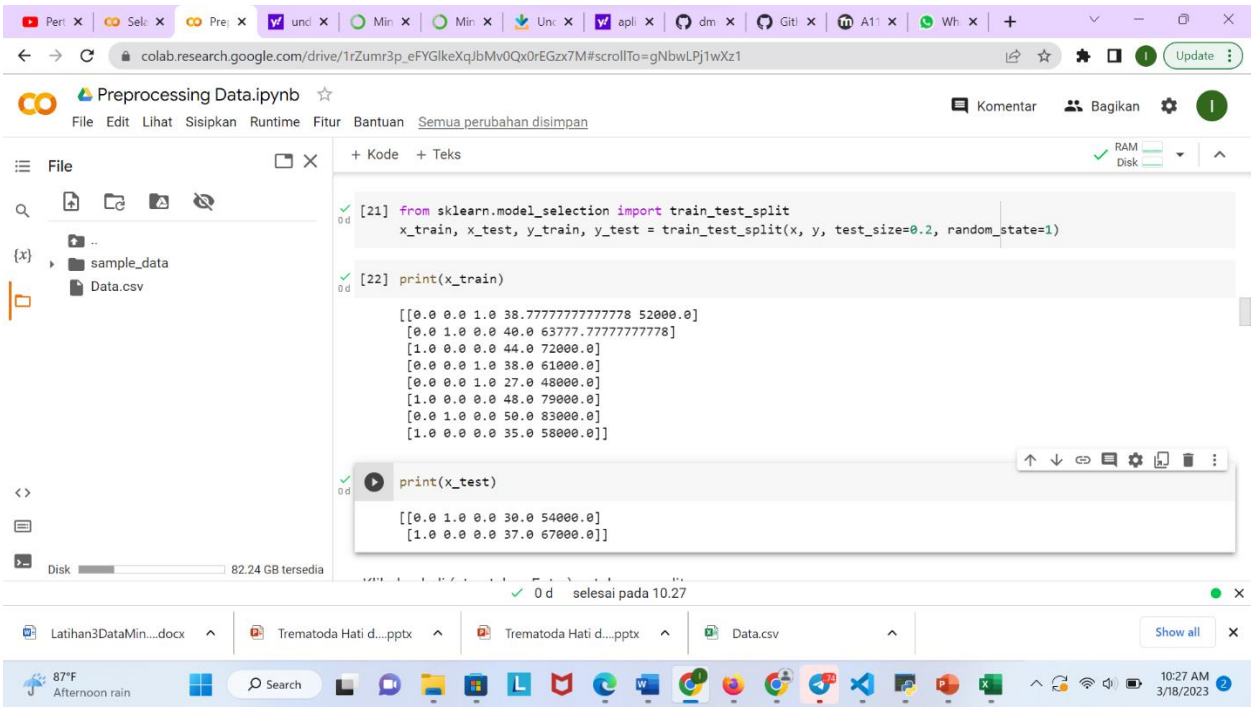
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[21] from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.2, random_state=1)
[22] print(x_train)
[[0.0 0.0 1.0 38.77777777777778 52000.0]
[0.0 1.0 0.0 40.0 63777.77777777778]
[1.0 0.0 0.0 44.0 72000.0]
[0.0 0.0 1.0 38.0 61000.0]
[0.0 0.0 1.0 27.0 48000.0]
[1.0 0.0 0.0 48.0 79000.0]
[0.0 1.0 0.0 50.0 83000.0]
[1.0 0.0 0.0 35.0 58000.0]]
print(x_test)
[[0.0 1.0 0.0 30.0 54000.0]
[1.0 0.0 0.0 37.0 67000.0]]
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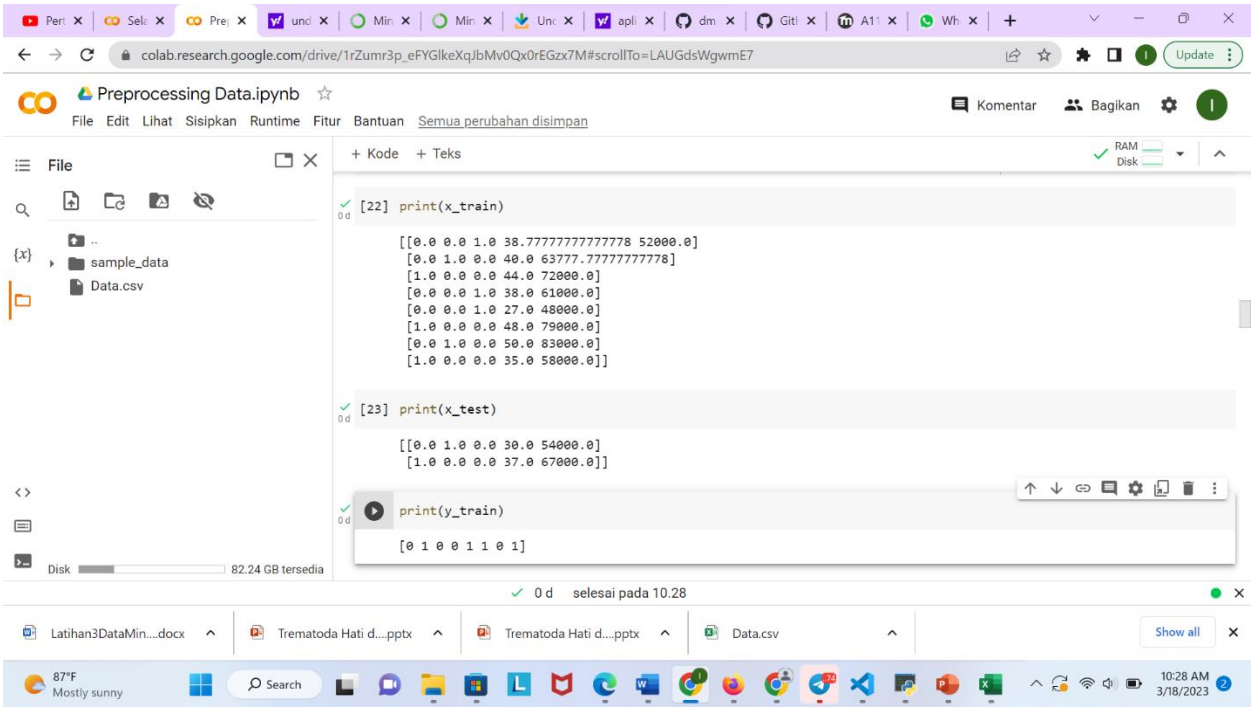
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[22] print(x_train)
[[0.0 0.0 1.0 38.77777777777778 52000.0]
[0.0 1.0 0.0 40.0 63777.77777777778]
[1.0 0.0 0.0 44.0 72000.0]
[0.0 0.0 1.0 38.0 61000.0]
[0.0 0.0 1.0 27.0 48000.0]
[1.0 0.0 0.0 48.0 79000.0]
[0.0 1.0 0.0 50.0 83000.0]
[1.0 0.0 0.0 35.0 58000.0]]
[23] print(x_test)
[[0.0 1.0 0.0 30.0 54000.0]
[1.0 0.0 0.0 37.0 67000.0]]
print(y_train)
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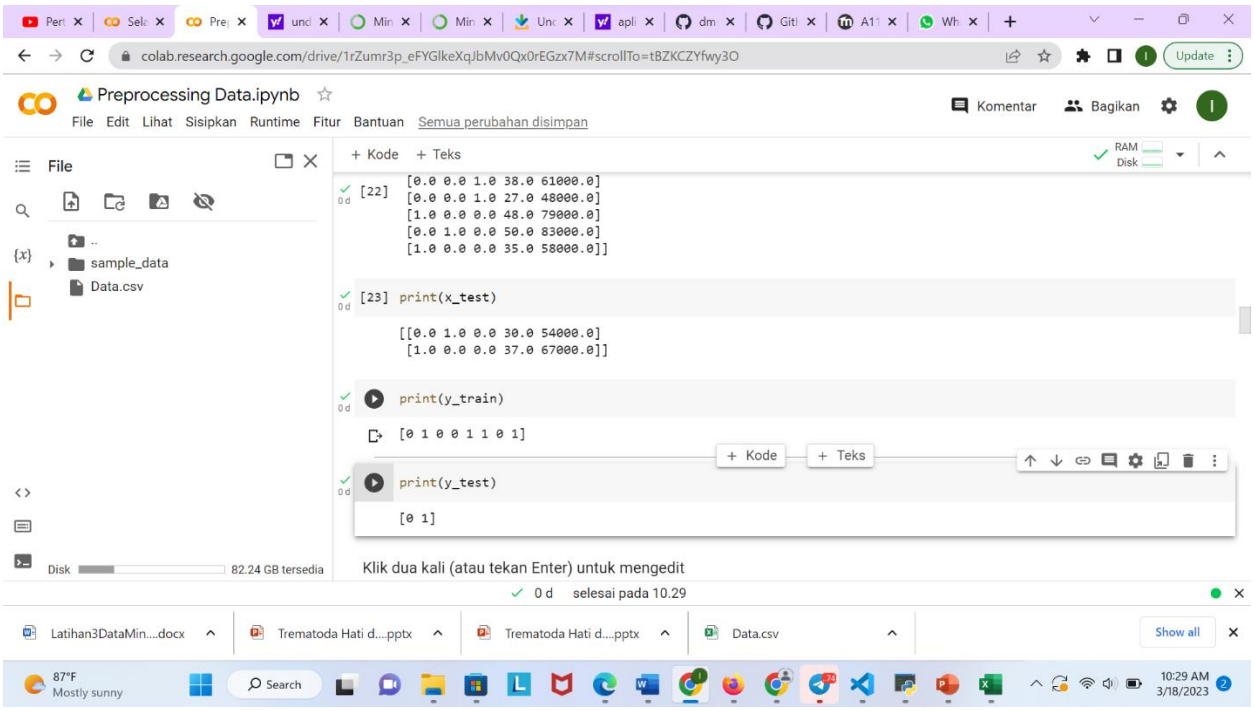
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[22] [0.0 0.0 1.0 38.0 61000.0]
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[1.0 0.0 0.0 48.0 79000.0]
[0.0 1.0 0.0 50.0 83000.0]
[1.0 0.0 0.0 35.0 58000.0]]
[23] print(x_test)
[[0.0 1.0 0.0 30.0 54000.0]
[1.0 0.0 0.0 37.0 67000.0]]
print(y_train)
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print(y_test)
[0 1]
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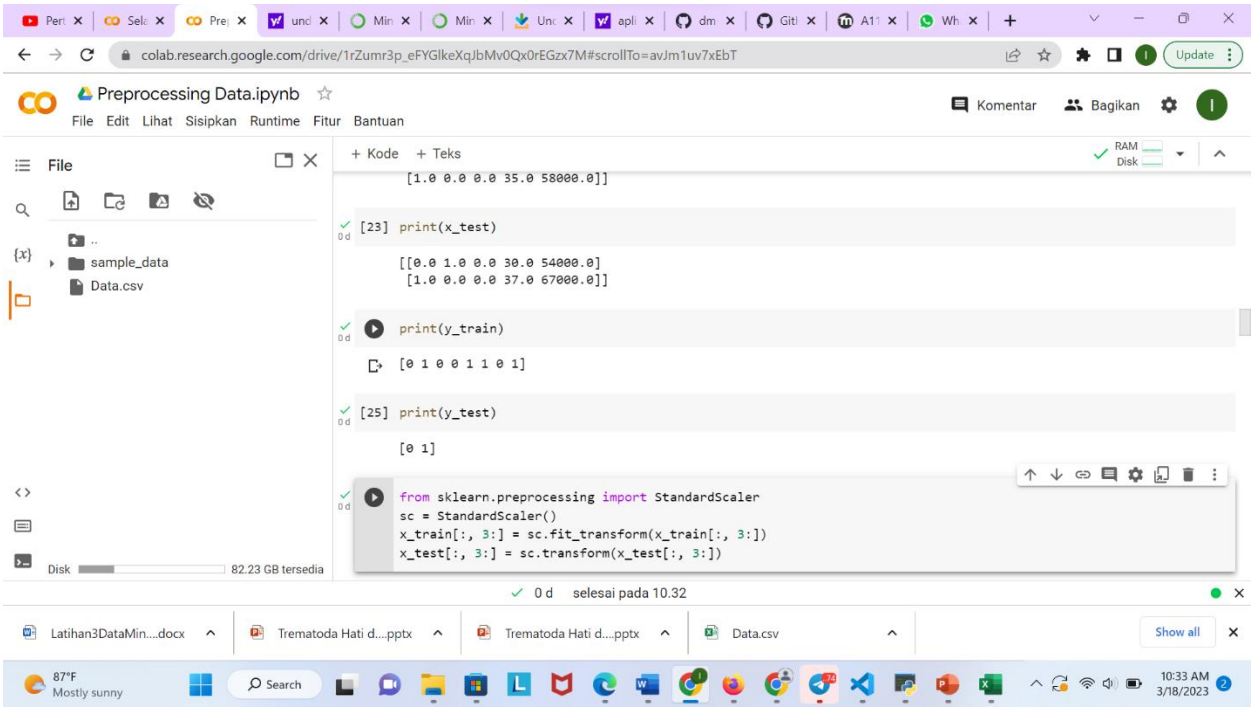
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[1.0 0.0 0.0 35.0 58000.0]]
[23] print(x_test)
[[0.0 1.0 0.0 30.0 54000.0]
[1.0 0.0 0.0 37.0 67000.0]]
print(y_train)
[0 1 0 0 1 1 0 1]
[25] print(y_test)
[0 1]
from sklearn.preprocessing import StandardScaler
sc = StandardScaler()
x_train[:, 3:] = sc.fit_transform(x_train[:, 3:])
x_test[:, 3:] = sc.transform(x_test[:, 3:])
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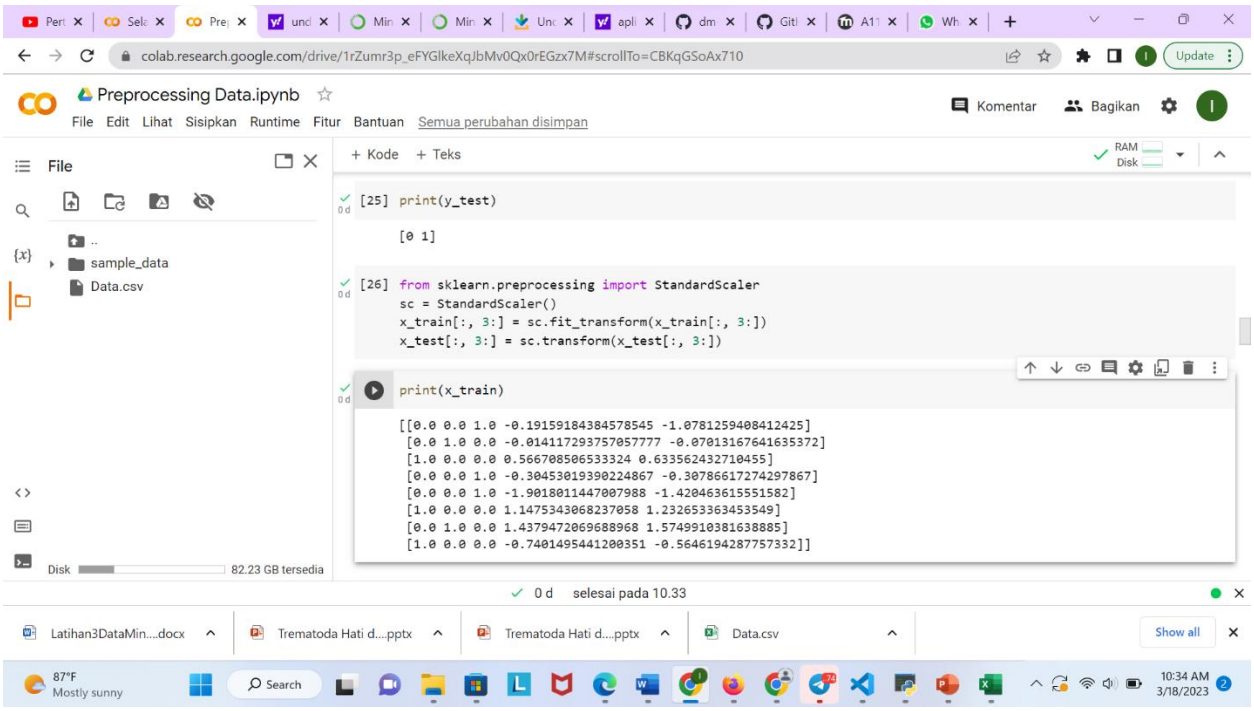
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[25] print(y_test)
[0 1]
[26] from sklearn.preprocessing import StandardScaler
sc = StandardScaler()
x_train[:, 3:] = sc.fit_transform(x_train[:, 3:])
x_test[:, 3:] = sc.transform(x_test[:, 3:])
print(x_train)
[[0.0 0.0 1.0 -0.19159184384578545 -1.0781259408412425]
[0.0 1.0 0.0 -0.014117293757057777 -0.07013167641635372]
[1.0 0.0 0.0 0.566708506533324 0.633562432710455]
[0.0 0.0 1.0 -0.30453019390224867 -0.30786617274297867]
[0.0 0.0 1.0 -1.9018011447007988 -1.420463615551582]
[1.0 0.0 0.0 1.1475343068237058 1.232653363453549]
[0.0 1.0 0.0 1.4379472069688968 1.5749910381638885]
[1.0 0.0 0.0 -0.7401495441200351 -0.5646194287757332]]
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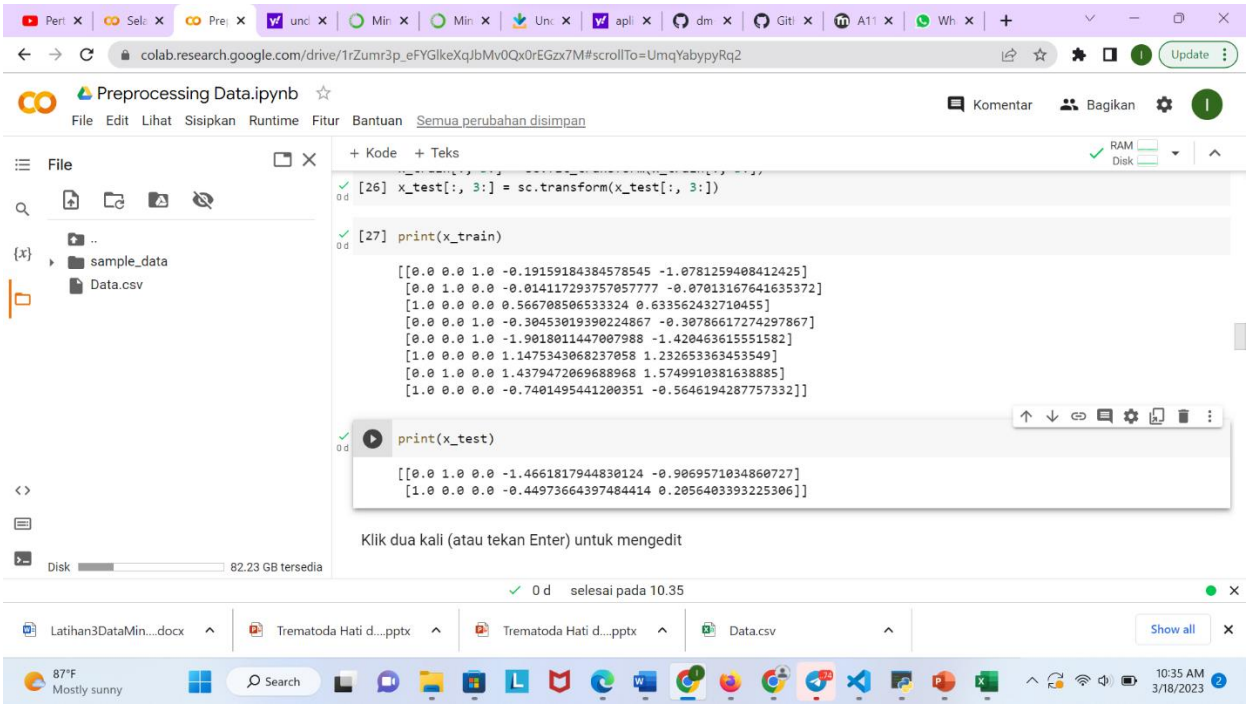
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[26] x_test[:, 3:] = sc.transform(x_test[:, 3:])
[27] print(x_train)
[[0.0 0.0 1.0 -0.19159184384578545 -1.0781259408412425]
[0.0 1.0 0.0 -0.014117293757057777 -0.07013167641635372]
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[1.0 0.0 0.0 1.1475343068237058 1.232653363453549]
[0.0 1.0 0.0 1.4379472069688968 1.5749910381638885]
[1.0 0.0 0.0 -0.7401495441200351 -0.5646194287757332]]
print(x_test)
[[0.0 1.0 0.0 -1.4661817944830124 -0.9069571034860727]
[1.0 0.0 0.0 -0.44973664397484414 0.2056403393225306]]
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