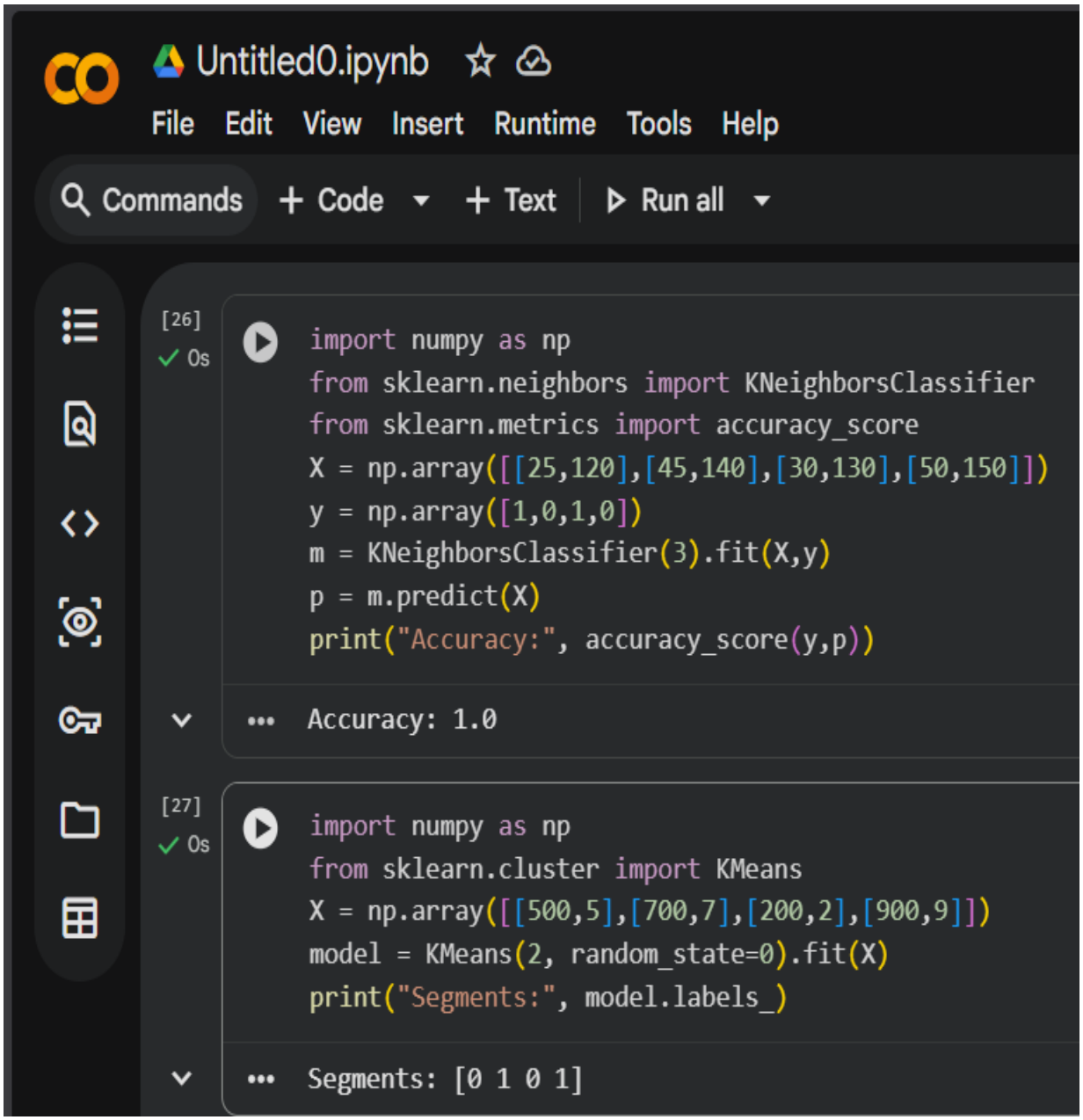
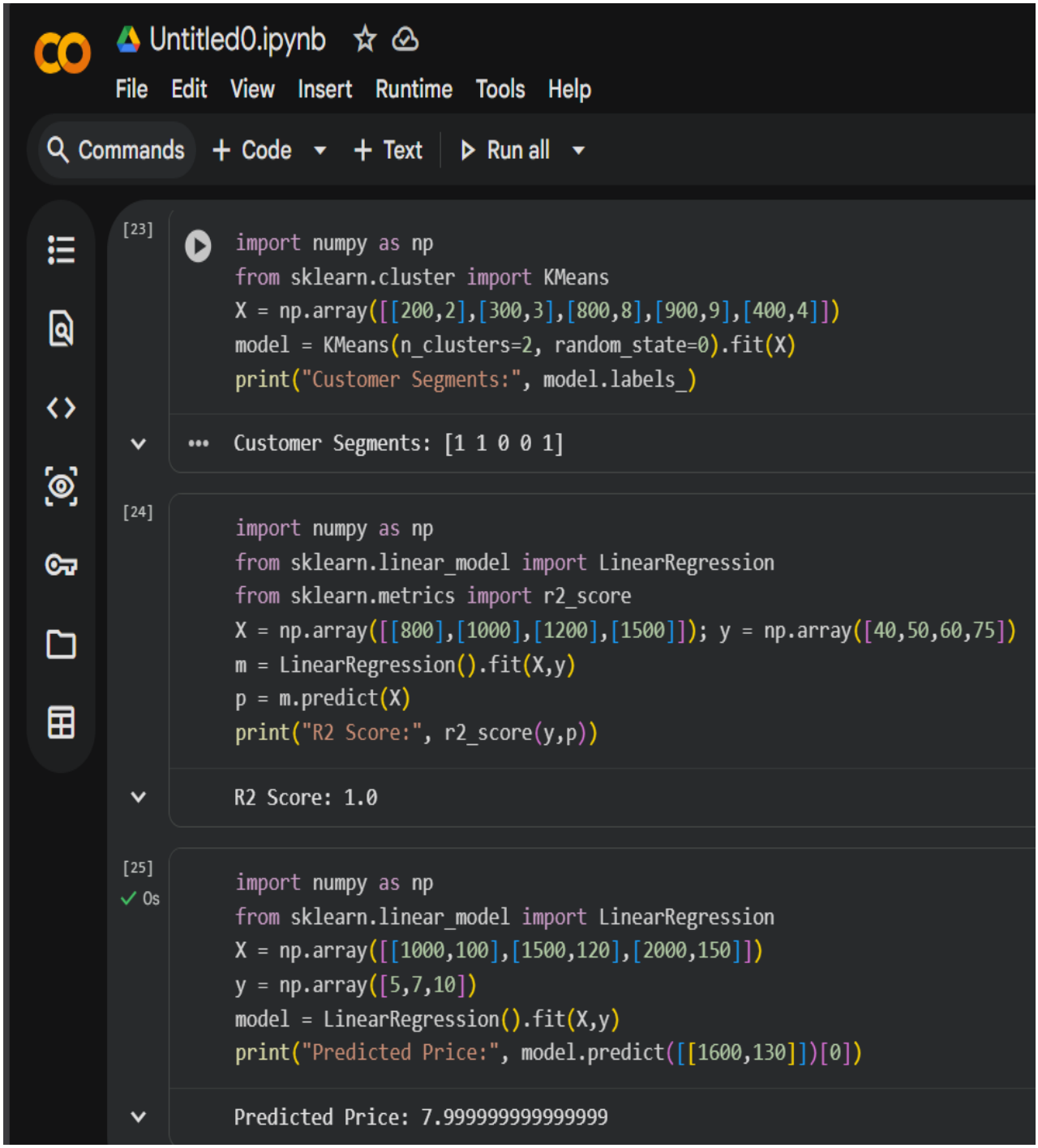
DAY – 8

[12.02.2025]

Exp : 31-35




Untitled0.ipynb
File Edit View Insert Runtime Tools Help
Commands + Code + Text Run all
[23]
import numpy as np
from sklearn.cluster import KMeans
X = np.array([[200,2],[300,3],[800,8],[900,9],[400,4]])
model = KMeans(n_clusters=2, random_state=0).fit(X)
print("Customer Segments:", model.labels_)
Customer Segments: [1 1 0 0 1]
[24]
import numpy as np
from sklearn.linear_model import LinearRegression
from sklearn.metrics import r2_score
X = np.array([[800],[1000],[1200],[1500]]); y = np.array([40,50,60,75])
m = LinearRegression().fit(X,y)
p = m.predict(X)
print("R2 Score:", r2_score(y,p))
R2 Score: 1.0
[25]
0s
import numpy as np
from sklearn.linear_model import LinearRegression
X = np.array([[1000,100],[1500,120],[2000,150]])
y = np.array([5,7,10])
model = LinearRegression().fit(X,y)
print("Predicted Price:", model.predict([[1600,130]])[0])
Predicted Price: 7.999999999999999