⊟

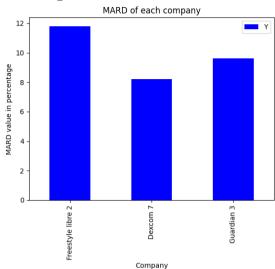
```
import pandas as pd
import numpy as np
import matplotlib
import matplotlib.pyplot as pp
#finding the mean of the MARD from Enlite (Medtronic)
fig1 = pd.read csv('/content/drive/MyDrive/Colab Notebooks/initial analysis/Enlitedata.csv'
fig1
MARD En = fig1.mean()
print("MARD En:", MARD En)
data = [20.756667, 13.606667, 15.623333]
data series = pd.Series(data)
MARD all = data series.mean()
print("MARD of all En:", MARD all)
#MARD of Guardian (Medtronic)
MARD G = 20.3
data = {'X': ['Freestyle libre 2', 'Dexcom 7', 'Guardian 3'], 'Y':[11.8, 8.2, 9.6]}
df = pd.DataFrame(data)
ax = df.plot(kind='bar', x='X', y='Y', color='b')
ax.set title('MARD of each company')
ax.set xlabel('Company')
ax.set_ylabel('MARD value in percentage')
pp.show()
#price of each brand
datap = {'X': ['Freestyle libre 2', 'Dexcom 7', 'Guardian 3'], 'Y':[47.95, 46.6, 68.85]}
df = pd.DataFrame(datap)
ax = df.plot(kind='bar', x='X', y='Y', color='g')
ax.set title('Price of each CGM from different company')
ax.set_xlabel('Company')
ax.set_ylabel('Price(f)')
pp.show()
#price vs MARD
datavs = {'X': ['11.8', '8.2', '9.6'], 'Y':[47.95, 46.6, 68.85],'Color': ['red', 'blue', 'g
df = pd.DataFrame(datavs)
scatter = df.plot(kind='scatter', x='X', y='Y', c=df['Color'], label='Scatter Plot', colorma
scatter.set_title('Price vs MARD')
scatter.set_xlabel('MARD')
scatter.set ylabel('Price(f)')
print("Red=Freestyle libre2 , Blue = Dexcom 7 , green = Guardian3")
```

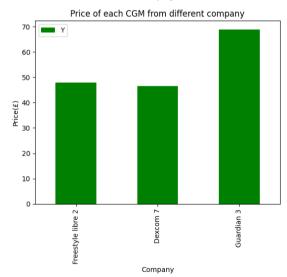
MARD\_En: tertial 1 20.756667

tertial 2 13.606667 tertial 3 15.623333

dtype: float64

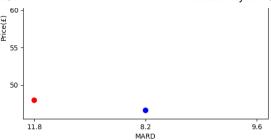
MARD of all\_En: 16.662222333333336





/usr/local/lib/python3.10/dist-packages/pandas/plottin
scatter = ax.scatter(





Red=Freestyle libre2 , Blue = Dexcom 7 , green = Guard