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import pandas as pd
import numpy as np
import io
from google.colab import files
#@uploaded = files.upload()



#df = pd.read_csv(io.BytesIO(uploaded['B-USD.csv']))


import pandas as pd

# Downloading the csv file from your GitHub account

url1 = "https://raw.githubusercontent.com/jim-cassidy/ecoins-trends/master/data/LTC-USD.csv"
url2 = "https://raw.githubusercontent.com/jim-cassidy/ecoins-trends/master/data/BTC-USD.csv"
url3 = "https://raw.githubusercontent.com/jim-cassidy/ecoins-trends/master/data/ETH-USD.csv"
url4 = "https://raw.githubusercontent.com/jim-cassidy/ecoins-trends/master/data/ADA-USD.csv"

df1 = pd.read_csv(url1)
df2 = pd.read_csv(url2)
df3 = pd.read_csv(url3)
df4 = pd.read_csv(url4)



my_array1 = df1.to_numpy()
my_array2 = df2.to_numpy()
my_array3 = df3.to_numpy()
my_array4 = df4.to_numpy()


newarray1 = np.empty((0,2),float)
newarray2 = np.empty((0,2),float)
newarray3 = np.empty((0,2),float)
newarray4 = np.empty((0,2),float)


for x in my_array1:
#    print (x[3])
    newarray1 = np.append(newarray1, np.array([x[3]]))
    last = x[3]
```

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for x in my_array2:
#    print (x[3])
    newarray2 = np.append(newarray2, np.array([x[3]]))
    last = x[3]

for x in my_array3:
#    print (x[3])
    newarray3 = np.append(newarray3, np.array([x[3]]))
    last = x[3]

for x in my_array4:
#    print (x[3])
    newarray4 = np.append(newarray4, np.array([x[3]]))
    last = x[3]


newarray1 = np.diff(newarray1) / newarray1[:-1]
newarray2 = np.diff(newarray2) / newarray2[:-1]
newarray3 = np.diff(newarray3) / newarray3[:-1]
newarray4 = np.diff(newarray4) / newarray4[:-1]

a = np.array([100,105,100,95,100], dtype=float)

import matplotlib.pyplot as plt


x  = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]



y1 = newarray1
y2 = newarray2
y3 = newarray3
y4 = newarray4

plt.plot(x, y1, label="Litecoin")
plt.plot(x, y2, label="Bitcoin")
plt.plot(x, y3, label="Etherum")
plt.plot(x, y4, label="Cardano")
plt.plot()

plt.xlabel("x axis")
plt.ylabel("y axis")
```

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plt.title("Comparison of cryptocoins")
plt.legend()
plt.show()
```