Principles of Data Science

Assignment-3

Name: Nikhil Jagadeesh Sriram

Student ID: 16352573

Source:

```
pip install requests
```

```
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (2.31.0)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests) (3.6)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests) (2024.2.2)
```

```
import requests

url = "https://twitter-api45.p.rapidapi.com/followers.php"

querystring = {"screenname":"elonmusk"}

headers = {
  "X-RapidAPI-Key": "a4c9a8f42fmsh3b2cd956ab2167bp1096fbjsn654dd6eeb638",
  "X-RapidAPI-Host": "twitter-api45.p.rapidapi.com"
}

response = requests.get(url, headers=headers, params=querystring)

print(response.json())
```

```
{'followers_count': 180604409, 'followers': [{'user_id': '95092020', 'screen_name': 'jordanbpeterson', 'description': 'Best-Selling Author | Clinical Psychol
```

```
import dash
from dash import html
import requests

url = "https://twitter-api45.p.rapidapi.com/followers.php"
querystring = {"screenname": "elonmusk"}
headers = {
    "X-RapidAPI-Key": "a4c9a8f42fmsh3b2cd956ab2167bp1096fbjsn654dd6eeb638",
    "X-RapidAPI-Host": "twitter-api45.p.rapidapi.com"
}
response = requests.get(url, headers=headers, params=querystring)
data = response.json()

follower_ids = []

if "followers" in data:
    follower_ids = [follower["screen_name"] for follower in data["followers"]]

app = dash.Dash(__name__)

app.layout = html.Div([
    html.H1('Followers of Elon Musk'),
    html.Ul([html.Li(user_id) for user_id in follower_ids])
])

if __name__ == '__main__':
    app.run_server(debug=True)
```

Output:

Followers of Elon Musk

- jordanbpeterson
- DonaldJTrumpJr
- hodgetwins
- TheBabylonBee
- Jim_Jordan
- dbongino
- lexfridman
- laurenboebert
- DineshDSouza
- RepMTG
- benshapiro
- SpaceX
- ksorbs
- ThisIsKyleR
- TomFitton
- RandPaul
- tedcruz
- Tesla
- kayleighmcenany
- NEWSMAX
- NUCL_LittleBoy
- ShelleyHet94683
- chuchutrai48247
- OBubble48163
- MukeshNoni33380
- bibimcam

Comment:

This assignment demonstrates the integration of Python libraries such as Dash and requests to interact with the Twitter API and present the data in a user-friendly dashboard. By fetching follower data of Elon Musk from the Twitter API and displaying it as a list, it showcases a practical application of API consumption. Utilizing Dash's simplicity in creating web-based visualizations, this assignment highlights the seamless integration of various Python tools to achieve a specific task effectively.