

```
!pip install BS4
!pip install Requests

Requirement already satisfied: BS4 in /usr/local/lib/python3.7/dist-packages (0.0.1)
Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.7/dist-packages (from BS4) (4.6.3)
Requirement already satisfied: Requests in /usr/local/lib/python3.7/dist-packages (2.23.0)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lib/python3.7/dist-packages (from Requests) (1.24.3)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages (from Requests) (3.0.4)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from Requests) (2.10)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages (from Requests) (2021.5.30)

import requests
import json

response = requests.get("https://coronavirus.m.pipedream.net/", verify=False)
# print(response.status_code)
# print()

/usr/local/lib/python3.7/dist-packages/urllib3/connectionpool.py:847: InsecureRequestWarning: Unverified HTTPS request is being made. Adding certificate verification is strongly ad
InsecureRequestWarning)

json_response = response.json()
# print(json_response)
json_response = json_response['rawData'] # get only table data
dictionary = json.dumps(json_response, sort_keys = True, indent = 4)
# print(dictionary)

import csv
import pandas as pd

df = pd.json_normalize(json_response)
df.head(10)

  FIPS  Admin2  Province_State  Country_Region  Last_Update  Lat  Long_  Confirmed  Deaths  Recovered  Active  Combined_Key  Incident_Rate  Case_Fatali
0      0      0      Afghanistan  Afghanistan  2021-10-17 33.93911  67.709953  155739  7238      0      0      Afghanistan  400.0658543347634  4.647519
1      1      1      Albania  Albania  2021-10-17 41.1533  20.1683  177536  2810      0      0      Albania  6169.1569949266795  1.58277757
2      2      2      Algeria  Algeria  2021-10-17 28.0339  1.6596  205199  5870      0      0      Algeria  467.94554008669763  2.86063772
3      3      3      Andorra  Andorra  2021-10-17 42.5063  1.5218  15338  130      0      0      Andorra  19851.161586746908  0.84756813
4      4      4      Angola  Angola  2021-10-17 -11.2027  17.8739  62789  1662      0      0      Angola  191.04389947772592  2.64696045
5      5      5      Antigua and Barbuda  Antigua and Barbuda  2021-10-17 17.0608  -61.7964  3888  95      0      0      Antigua and Barbuda  3970.2638673311  2.44341565
6      6      6      Argentina  Argentina  2021-10-17 -38.4161  -63.6167  5272151  115663      0      0      Argentina  11665.140749765184  2.1938485
7      7      7      Armenia  Armenia  2021-10-17 40.0691  45.0382  280294  5754      0      0      Armenia  9459.057232739637  2.05284451
8      8      8      Australian Capital Territory  Australia  2021-10-17 -35.4735  149.0124  1571  11      0      0      Australian Capital Territory, Australia  366.97033403410416  0.70019096
9      9      9      New South Wales  Australia  2021-10-17 -33.8688  151.2093  71399  524      0      0      New South Wales, Australia  879.5146587829512  0.7339038361881819

# delete empty columns
df = df.drop(columns=['Recovered', 'Active'])

# delete 'FIPS', 'Admin2' columns - These are only available for regions in the US.
df = df.drop(columns=['FIPS', 'Admin2'])

# Rename the columns
df = df.rename(columns={"Lat": "Latitude", "Long_": "Longitude"})
df.head(10)

  Province_State  Country_Region  Last_Update  Latitude  Longitude  Confirmed  Deaths  Recovered  Active  Combined_Key  Incident_Rate  Case_Fatality_Ratio
0      0      0      Afghanistan  Afghanistan  2021-10-17 04:21:29  33.93911  67.709953  155739  7238      0      0      Afghanistan  400.0658543347634  4.64751924694521
1      1      1      Albania  Albania  2021-10-17 04:21:29  41.1533  20.1683  177536  2810      0      0      Albania  6169.1569949266795  1.5827775775054074
2      2      2      Algeria  Algeria  2021-10-17 04:21:29  28.0339  1.6596  205199  5870      0      0      Algeria  467.94554008669763  2.8606377224060546
3      3      3      Andorra  Andorra  2021-10-17 04:21:29  42.5063  1.5218  15338  130      0      0      Andorra  19851.161586746908  0.8475681314382579
4      4      4      Angola  Angola  2021-10-17 04:21:29  -11.2027  17.8739  62789  1662      0      0      Angola  191.04389947772592  2.6469604548567425
5      5      5      Antigua and Barbuda  Antigua and Barbuda  2021-10-17 04:21:29  17.0608  -61.7964  3888  95      0      0      Antigua and Barbuda  3970.2638673311  2.4434156378600824
6      6      6      Argentina  Argentina  2021-10-17 04:21:29  -38.4161  -63.6167  5272151  115663      0      0      Argentina  11665.140749765184  2.193848393189042
7      7      7      Armenia  Armenia  2021-10-17 04:21:29  40.0691  45.0382  280294  5754      0      0      Armenia  9459.057232739637  2.0528445132610758
8      8      8      Australian Capital Territory  Australia  2021-10-17 04:21:29  -35.4735  149.0124  1571  11      0      0      Australian Capital Territory, Australia  366.97033403410416  0.7001909611712285
9      9      9      New South Wales  Australia  2021-10-17 04:21:29  -33.8688  151.2093  71399  524      0      0      New South Wales, Australia  879.5146587829512  0.7339038361881819

df.shape

(4005, 10)

df = df.head(50)

df.to_csv("./covid.csv")
```