```
In [2]: # Json API (found here: https://www.programmableweb.com/api/covid2019-rest-api-v10)
#Functions to retrieve and store in Mongo DB Covid data per country
#Getting the Full https://covid2019-api.herokuapp.com/v2/current
            import pymongo
            def get_countries_covid_data_json():
                 res=requests.get('https://covid2019-api.herokuapp.com/v2/current');
                 return res.json();
            def store in db countries covid data(result):
                print(type(result['data']))
list_of_entries=result['data']
print("inserting to MongoDB Covid Data")
                 client = pymongo.MongoClient("mongodb+srv://m001-student:m001-mongodb-basics@cluster0.laxah.mongodb.net/myFirstDatabase?retryWrites=true&w=majority", serverSelect
                 db=client.marcin
                 coll=db.covid data
                 #coll=db.covid_data #dropping teh data before inserting.
coll.drop()
                 coll.insert_many(list_of_entries)
In [3]: #scraping WordMeter Website for Countries Population Data
           #based on https://towardsdatascience.com/how-to-web-scrape-in-8-minutes-4a100a672397
            import requests
            from bs4 import BeautifulSoup
import pandas as pd
               Retrive and store in Atlas MongoDB instance Countries Populatoin data
            def get_and_store_countries_population_data_scraping():
    url = 'https://www.worldometers.info/world-population/population-by-country/'
                 requests.get(url)
                 page = requests.get(url)
#page
                 soup = BeautifulSoup(page.text, 'lxml')
                 #print(table_data)
headers = []
for i in table_data.find_all('th'):
                     title = i.text
headers.append(title)
                 df = pd.DataFrame(columns = headers)
                 for j in table_data.find_all('tr')[1:]:
    row_data = j.find_all('td')
    row = [tr.text for tr in row_data]
                           length = len(df)
df.loc[length] = row
                 ### list_of_population_data=[] 
for index, row in df.iterrows(): 
    #print (row["Country (or dependency)"], int(row["Population (2020)"].replace(',','')))
                      d'('Country']=row["Country (or dependency)"]
d['Population']=int(row["Population (2020)"].replace(',',''))
list_of_population_data.append(d)
                 print("inserting to MongoDB Population Data")
client = pymongo.MongoClient("mongodb+srv://m001-student:m001-mongodb-basics@cluster0.laxah.mongodb.net/myFirstDatabase?retryWrites=true&w=majority", serverSelect
db=client.marcin
                 coll=db.population_data
#coll=db.covid_data #dropping teh data before inserting.
                 coll.drop()
                 coll.insert_many(list_of_population_data)
In [4]: #Functions to retrieve and store in Mongo DB Obesity data per country
            #DataSet Source - WHO website - note XML file is 11MB
            import xml.etree.ElementTree as El
            import urllib.request
def get_and_store_countries_obesity_data_xml():
                headers = {
                           'user-agent': 'Mozilla/5.0 (Macintosh: Intel Mac OS X 10 11 6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36',
                 response = requests.get("https://apps.who.int/gho/athena/data/GHO/NCD_BMI_30C.xml?profile=simple&filter=AGEGROUP:*;COUNTRY:*;SEX:*:",headers=headers) with open("response.xml", "w", encoding="utf-8") as f:
                     f.write(response.text)
                 xmlFile = "response.xml"
                tree = ET.parse(xmlFile)
root = tree.getroot()
                 list of obesity data=[]
                 if element.find('YEAR').text=='2016' and element.find('Display').text !='No data' and element.find('SEX').text=='Both sexes':
                           d['Country']=element.find('COUNTRY').text
                           d['Obesity_percentage']=element.find('Numeric').text
list_of_obesity_data.append(d)
                 print("inserting to MongoDB Obesity Data")
                 client = pymongo.MongoClient("mongodb+srv://m001-student:m001-mongodb-basics@cluster0.laxah.mongodb.net/myFirstDatabase?retryWrites=true&w=majority", serverSelect
                 db=client.marcin
coll=db.obesity_data
                 #coll=db.covid_data #dropping teh data before inserting.
                 coll.drop()
coll.insert_many(list_of_obesity_data)
In [6]: def main():
                    Retrive and store in Atlas MongoDB instance Countries Covid data (method: JSON API)
                 try:
                     w_data=get_countries_covid_data_json();
store_in_db_countries_covid_data(w_data)
                 except:
                 print('API call failed...')
# Retrive and store in Atlas MongoDB instance Countries Populatoin data (method: WEB Scaraping )
                get_and_store_countries_population_data_scraping()
# Retrive and store in Atlas MongoDB instance Countries Obesity data (method: XML download andparsing )
                get_and_store_countries_obesity_data_xml()
           if __name__=='__main__':
    main()
```

<class 'list'>
inserting to MongoDB Covid Data
inserting to MongoDB Population Data
inserting to MongoDB Obesity Data