**CODE:**

'''

This program accesses the USGS earthquake data feed. This URL is for

significant quakes in the last 30 days.

It then saves the earthquakes to a database named usgs and a collection called earthquakes.

The mongod server must be running for this program to work!

'''

import urllib.request

import json

import pymongo

# get the bbc rss feed of news stories and connect to it

earthquake\_url = "http://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/significant\_month.geojson"

try:

response = urllib.request.urlopen(earthquake\_url)

except urllib.error.URLError as e:

if hasattr(e, 'reason'):

print('We failed to reach a server.')

print('Reason: ', e.reason)

elif hasattr(e, 'code'):

print('The server couldn\'t fulfill the request.')

print('Error code: ', e.code)

else:

# the url request was successful - convert the response to a string

json\_string = response.read().decode('utf-8')

# the json package loads() converts the string to python dictionaries and lists

eq\_json = json.loads(json\_string)

print(eq\_json)

# from the json dictionary we get the title to print

title = eq\_json['metadata']['title']

print('Collected data from', title)

# and we get the list of earthquakes

quakelist = eq\_json['features']

# Connection to Mongo DB

try:

client=pymongo.MongoClient('localhost', 27017)

print ("Connected successfully!!!")

except pymongo.errors.ConnectionFailure as e:

print ("Could not connect to MongoDB: %s" % e )

else:

# use database named usgs or create it if not there already

eqdb = client.usgs

# create collection named earthquakes or create it if not there already

quakecoll = eqdb.earthquakes

# add all the earthquakes to the list

quakecoll.insert\_many(quakelist)

print("Added", len(quakelist), "to earthquakes collection in usgs database")

# close the database connection

client.close()

try:

client=pymongo.MongoClient('localhost', 27017)

print ("Connected successfully!!!")

except pymongo.errors.ConnectionFailure as e:

print ("Could not connect to MongoDB: %s" % e )

else:

# use database named usgs or create it if not there already

eqdb = client.usgs

quakecoll = eqdb.earthquakes

for item in quakecoll.find():

properties = item['properties']

print(properties['place'],properties['time'])

client.close()

**OUTPUT:**

Connected successfully!!!

27km N of Santa Elena, Ecuador 1554015844930

3km WSW of Versalles, Colombia 1553368878010

52km E of Luganville, Vanuatu 1553095438680

28km S of Cliza, Bolivia 1552626230080

12km SSE of Volcano, Hawaii 1552474513370

116km SE of L'Esperance Rock, New Zealand 1551887174900

7km NE of Maynardville, Tennessee 1551819362390

57km N of Dove Creek, Colorado 1551720171740