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#
# Example file for parsing and processing JSON
#
import urllib.request
import json

def printResults(data):
  # Use the json module to load the string data into a dictionary
  theJSON = json.loads(data)

  # now we can access the contents of the JSON like any other Python object
  if 'title' in theJSON['metadata']:
    print(theJSON['metadata']['title'])

  # output the number of events, plus the magnitude and each event name
  count = theJSON['metadata']['count']
  print(str(count) + ' :Events Recorded')
  # for each event, print the place where it occurred
  for i in theJSON['features']:
    print(i['properties']['place'], i['properties']['mag'])
  print('------------------\n')

  # print the events that only have a magnitude greater than 4
  for i in theJSON['features']:
    if i['properties']['mag'] >= 4.0:
      print('%2.1f' % i['properties']['mag'], i['properties']['place'])
  print('------------------\n')

  # print only the events where at least 1 person reported feeling something
  print ("\n\nEvents that were felt:")
  for i in theJSON["features"]:
    feltReports = i["properties"]["felt"]
    if (feltReports != None):
      if (feltReports > 0):
        print ("%2.1f" % i["properties"]["mag"], i["properties"]["place"], " reported " + str(feltReports) + " times")
  print('------------------\n')

def main():
  # define a variable to hold the source URL
  # In this case we'll use the free data feed from the USGS
  # This feed lists all earthquakes for the last day larger than Mag 2.5
  urlData = "http://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/2.5_day.geojson"

  # Open the URL and read the data
  weburl = urllib.request.urlopen(urlData)
  print ("result code: " + str(weburl.getcode()))
  if (weburl.getcode() == 200):
    data = weburl.read()
    printResults (data)
  else:
    print('Recieved Error, cannot parse results')

if __name__ == "__main__":
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main()
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