**UKOL FILES 2**

with open('C:\\Users\\341917\\Downloads\\test.txt', 'r') as file\_in:

with open('C:\\Users\\341917\\Downloads\\out.txt', 'w') as file\_out:

in\_lines = file\_in.readlines()

# print(in\_lines)

for i in range(len(in\_lines)):

file\_out.write(str(i) + in\_lines[i])

**UKOL FILES 3**

coords = [[52.23, 21.04], [54.41, 18.65], [53.14, 23.21], [53.4, 14.5]]

cities = ['Warszawa', 'Gdansk', 'Bialystok', 'Szczecin']

with open('C:\\Users\\341917\\Downloads\\mesta.kml', 'w') as file:

 file.write('<kml><Document><name>my first point</name>')

 for a in range(len(cities)):

 file.write('<Placemark>')

 file.write('<name>' + cities[a] + '</name>')

 file.write('<Point><coordinates>' + str (coords[a][1]) + ', ' + str (coords[a][0])+ '</coordinates></Point></Placemark>')

 file.write('</Document>\n</kml>')

**HOMEWORK 2 - GeoJSON**

coords = [[52.23, 21.04], [54.41, 18.65], [53.14, 23.21], [53.4, 14.5]]

cities = ['Warszawa', 'Gdansk', 'Bialystok', 'Szczecin']

with open('C:/Users/Adam/Desktop/phd/vyuka/Programovani/test1/poland.geojson', 'w') as json:

 json.write('{ "type": "FeatureCollection",\n')

 json.write('"features":[\n')

 for ci in range(len(cities)):

 city = cities[ci]

 json.write('{ "type": "Feature",\n')

 json.write('"geometry": {"type": "Point", "coordinates": [')

 json.write(str(coords[ci][1]) + ', ' + str(coords[ci][0]))

 json.write(']},\n')

 json.write('"properties": {')

 json.write('"name": "' + cities[ci] + '",\n')

 json.write('}\n},\n')

 json.write(']}')