

## Data Management and Artificial Intelligence Homework 8

### Task 1 *Warm up for using the Python package lxml*

1. Download the xml file with the name 'bikes London.xml' and save it to your hard disk. This file stores live information regarding bike sharing stations (ids, names, locations, numbers of bikes ...) in London.
2. Print the total number of bike stations and output a list of their names.
3. Print the ID (*id*) and the number of bikes (*nbBikes*) of all unlocked stations whose number of bikes is larger than 40.
4. Use matplotlib to visualize the locations of all stations in London. Stations with more than 10 bicycles should be plotted as blue circles, all other stations as red circles. The result should be similar to Figure 5.

Hint: You can find some tutorial on lxml here: <https://lxml.de/tutorial.html>

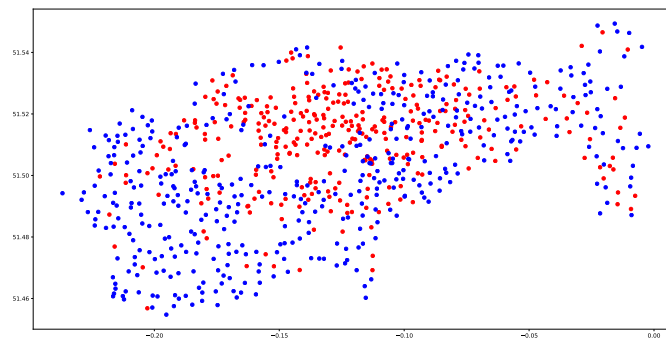


Figure 5: Task1