Lecture 3 Loops, dictionaries

Programming in geoinformatics

Autumn 2017

Exercise 1

EXERCISE 1

Create functions calculateLength() and findCommonPoints() using the code from Homework 2.

Homework

With the following dictionary:

```
cities = {
    "Prague": 1259079,
    "Brno": 377440,
    "Ostrava": 294200,
    "Plzeň": 169033,
    "Liberec": 102562
}
```

Create functions to:

- add population to cities: born(amount, city)
- 2 subtract population from a city: deceased(amount, city)
- Sometimes move population from one city to another: move (amount, from, to)

Bonus Homework

1 point

Modify the functions born() and deceased() to add/subtract population from **all** cities if the city argument is not provided (e.g. born(2000) will add 2000 to all cities in the dictionary).

Hint

Use None as the default value.