Assignment 2

In part "A" –

of the assignment we asked to criticize about two other projects by those parameters:

1) Projects reports quality.

2) Code writing and organized (classes and packages) quality.

3) System quality (runnable and output).

4) Comparative rating – their project against our.

In part "B" -

We asked to execute Algorithm 1:

When given WIFI MAC address we examine his location with the exists data.

This part we execute by HashMap that all the keys are MAC located found in the stored data.

Every MAC key has all the information about it by ArrayList that given comfortable access to all his information every MAC have different information.

Afterwards we sorted the ArrayList of each key by signal, first is the strongest last is weakest (take the four strongest signals), than the algorithm make calculate that help to get the assumed location of wanted MAC.

Included comparative table for our result and lecturer result for following files:

Watch Table: press here!

Watch Files: press here!

Execute Algorithm 2:

When given three WIFI sample that include MAC and signal we want to examine the user location.

This part we execute by HashMap that all the keys are MAC located in the stored data in comb file.

Short explanation: we have combined file - "Comb" and we have no location file - "nogps".

From the “nogps” file we create ArrayList that organized in line by MAC and signal information.

From the “comb” file we create HashMap, all the keys are MAC.

After those definitions for each line in “nogps” file we search the relevant information in HashMap and we toke three locations with the highest similarity level (those three locations are similar to the locations we used in algorithm 1 for that reason we now can send the locations we get to algorithm 1 and get final results).

Included comparative table for our result and lecturer result for following files:

Watch Table: press here!

Watch Files: press here

In part “C”:

Run tests and write comparative report –

Compare Algorithm 1 –

Average		
Alt	Lon	Lat
2.196822778	0.000312119	0.00025843

Files folder: press here!

Compare Algorithm 2:

AVERAGE		
Alt	Lon	Lat
3.53386	0.0003	0.00024

Files folder – press here!