Instructions

- 1. For the preprocessing part you must run the Preprocessing.ipynb first. This will generate the following pickle files which are required to run A_star_Algorithm.ipynb:
 - all_edges
 - all_nodes
 - dist_to_trg
 - lst_g
 - min_max
 - trg
- 2. Afterwards run the A_star_Algorithm.ipynb to generate the results files.
- 3. Alternatively, just run Newton_Raphson_Results.ipynb which automatically loads preexisting pickle files generated from a previous run of A_star_Algorithm.ipynb.
 - Namely: [exp_var3_100, exp_var5_100] combined gives 200 observations
- 4. After Running Newton_Raphson_Results.ipynb you can open A_star_Algorithm_Results_Comparison.ipynb which plots the routes using the beta parameters estimated in NR.
 - Here you can change which source/target observation to run the A* search (obs = x)

Note: Public_Transit_Generate.ipynb was used to generate G_Public, if curious, you can run to see how it works.

• For A* search, only the G_public that is generated using the "Generate G_Public with Simplified Bus Network" cell is used.