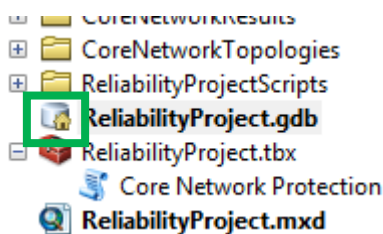


```

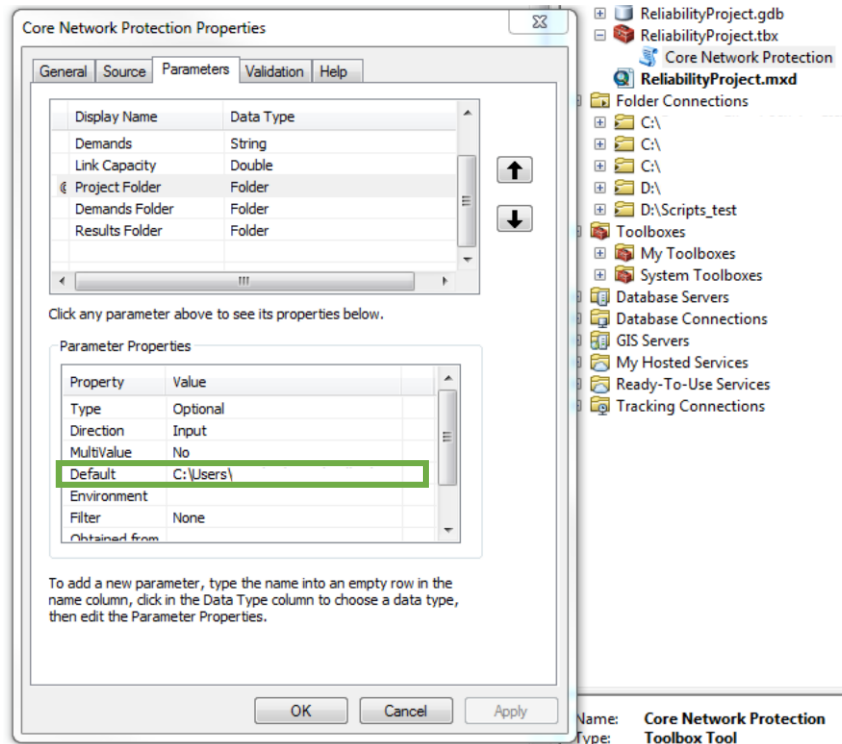
# -----
# Name:           Useful tips for not professional ArcGIS users
# Purpose:        Make your life easier in this project
# Author:         Elena Grigoreva, e.v.grigoryeva@gmail.com
#                 (Technical University of Munich)
# About author:   https://egrigoreva.github.io/
# Created:        12/10/2018
# Copyright:      (c) Chair of Communication Networks, Department of
#                 Electrical and Computer Engineering,
#                 Technical University of Munich
# ArcGIS Version: 10.3.1
# Python Version: 2.7
# -----

```

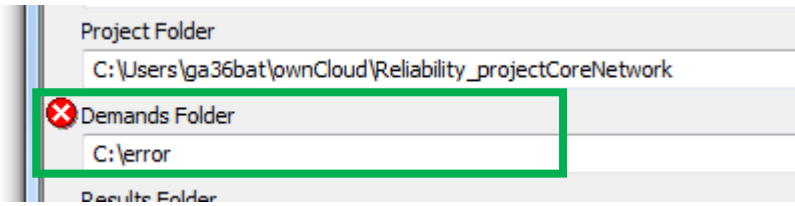
Make sure that the ReliabilityProject database is your home database. It is needed so that the results are stored where you want them and can find them.



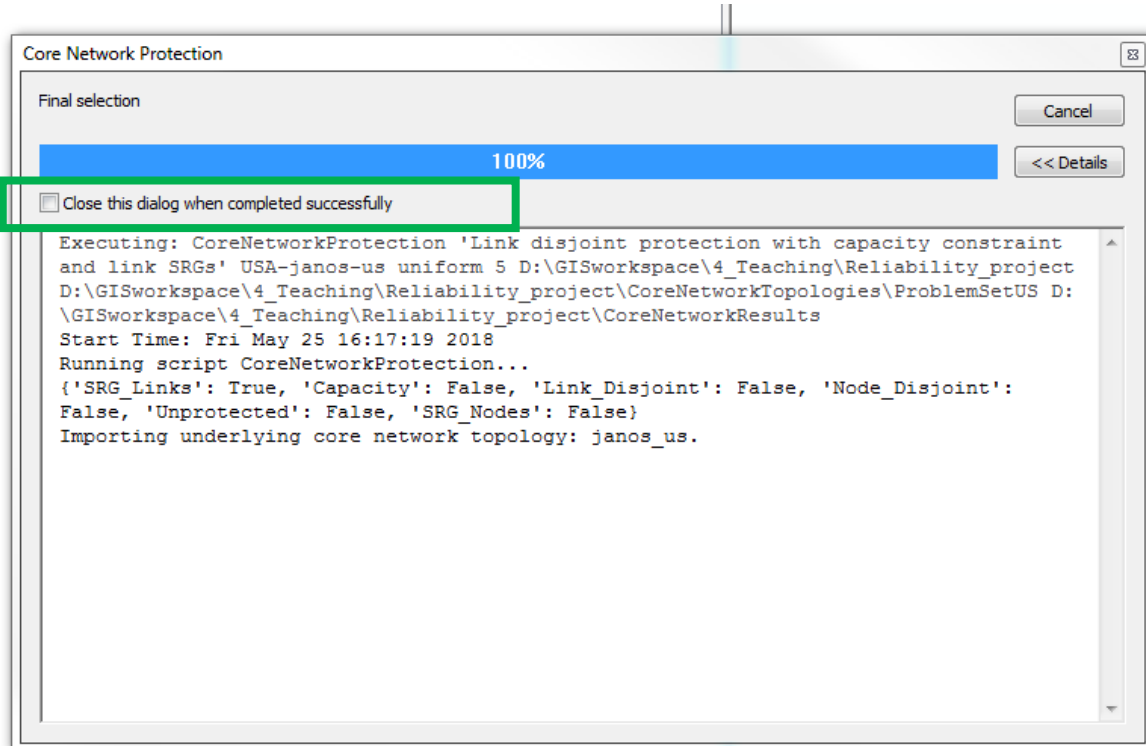
In the properties of the toolbox change the default parameters to the suitable ones for your case. This will make running the program nicer as you will not need to put the inputs every time per hand.



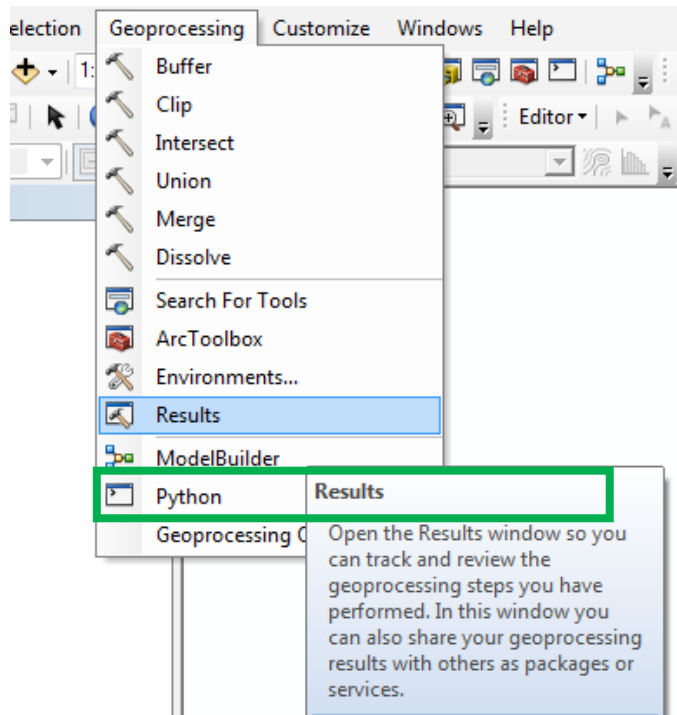
If you have this symbol near the path, the path name is invalid. It is not the code or tool problem.



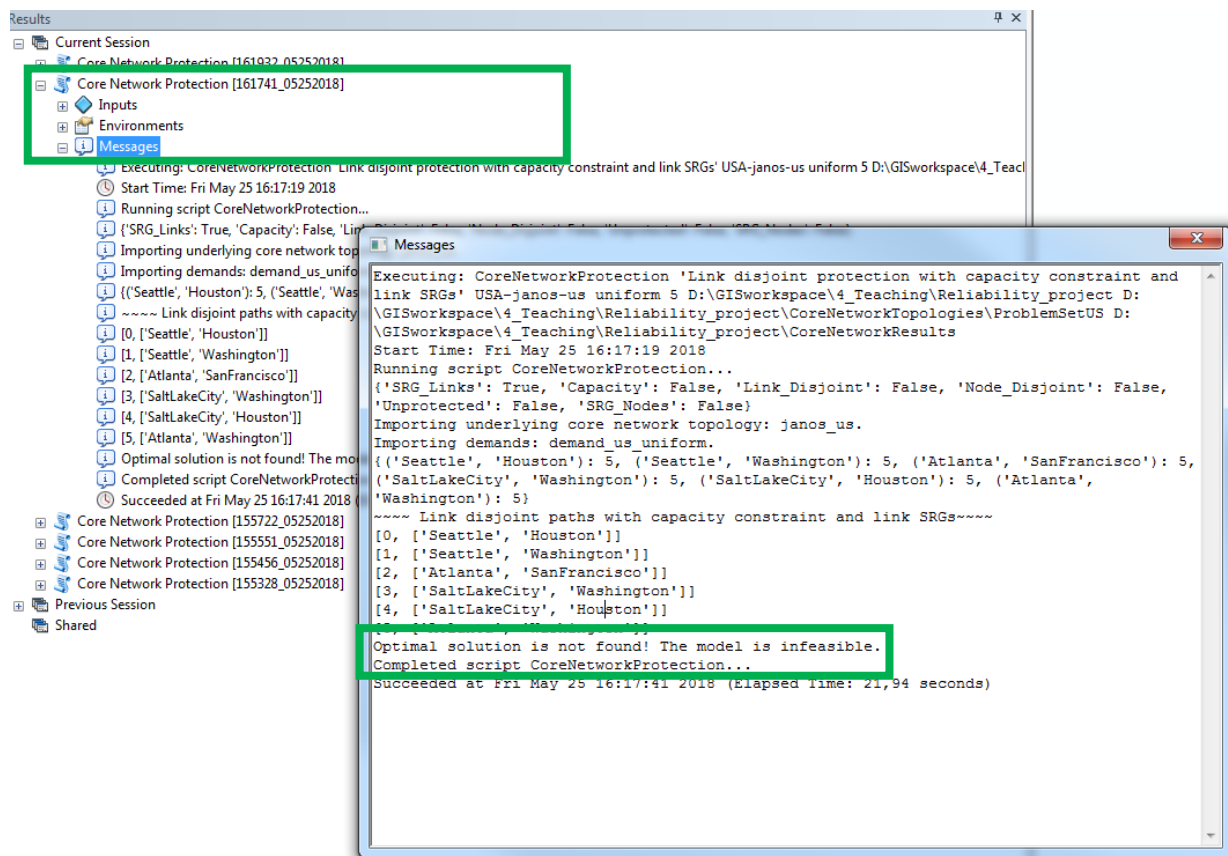
Untick the “Close dialog when completed” to see the messages.



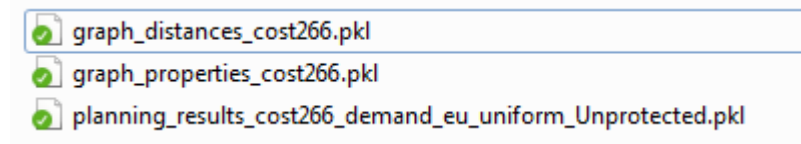
You can always find your inputs and the messages in the Geoprocessing/Results. If you are having any issues include both the inputs and the error message.



An example of the messages for the correct script execution.



The results are stored in ...\\Reliability_projectCoreNetwork\\CoreNetworkResults (or any other folder that you have given as an input). There you get two files characterizing the topology: graph_distances and graph_properties. The planning_results characterizes the optimization problems, including the demands.



You can also take a look on demands and the respective SRGs in the respective topology folder:

	demand_ger_big	12.05.2016 12:22	Text Document	1 KB
	demand_ger_medium	12.05.2016 11:31	Text Document	1 KB
	demand_ger_small	12.05.2016 11:31	Text Document	1 KB
	demand_ger_uniform	12.05.2016 11:30	Text Document	1 KB
	germany50	12.05.2016 09:45	GRAPHML File	10 KB
	germany50_reduced	12.05.2016 11:01	GRAPHML File	10 KB
	nobel_ger	12.05.2016 09:45	GRAPHML File	4 KB
	nobel_ger_increased	12.05.2016 10:52	GRAPHML File	4 KB
	srg_ger_nodes	12.05.2016 13:06	Text Document	1 KB
	srg_links.pkl	26.05.2018 12:06	PKL File	1 KB
	srg_links_nobel.pkl	26.05.2018 12:07	PKL File	1 KB
	srg_nodes.pkl	26.05.2018 12:06	PKL File	1 KB
	srg_nodes_nobel.pkl	26.05.2018 12:07	PKL File	1 KB

The demands are common for the EU, GER and US groups. The link SRGs are different for the nobel groups in US and GER.

The results are saved as .pkl files as python dictionaries. It is suggested that the results are stored in the CoreNetworkResults folder. They can be imported with pickle package to the python post processing code as:

```
import pickle

output_file_dist =
os.path.join(path_results, 'graph_distances_{0}.pkl'.format(core_network_name))

with open(output_file_dist, 'rb') as f_d:
    test = pickle.load(f_d)
```