Your next task.

TODO plan:

- You need to search for information about **ExoMars 2020** (Rover only) from open sources.
- The following information about Rover is needed:
 - Onboard Network structure:
 - What scientific and other devices comprise the network. What do they needed for?
 (Functions, types of packet and communication protocols used (incl. layering)
- SystemC Implementation of Rover Network:
 - Switch implements only the network layer of SpW;
 - Channels need to have the parameters of speed of transmission (SpW) and error bit simulation;
 - Devices should generate and handle data from/into network with owns protocols and functions;
- You need to implement base log-system (i think it will be the text-logging) for save the network state in any times;
- Parallel implementation of a system:
 - Using the routing table split the network into 2 independent regions where traffics are independent;
 - Run it as 2 independent process through *WinAPi*. Compare modeling time of parallel model with time of single model.
 - Think about how to parallelize the system in the case of cross-traffic transmission through the network (One solution is to use the scheduling in case of traffic crossed);
 - Compare results (time of modeling and data correctness) between models (if you have successfully completed the previous item)
- If you will have any time after previous items:
 - Log-system:
 - Try to change text-logging to database-logging. Choose something what you can use (SQLite, MongoDB or other open source relational database management system).
 - Compare database-logging with old-logging. What is the best solution for current project?
 - o Topology design:
 - Create tools for design of a network with SpW elements (Nodes, SpW Switchs and channels);
 - Data and packet will be generating from settings user (data size, start time transmit and transmit period);
 - The routing table in every switch should be automatically created when some devices connecting to the switch;
 - Implementing logical and path addresses at your discretion.