



## ROBOTICS – Python Development – Lab 12 - Homework

1. We need to process a series of movement commands for a robot, these commands being **backward, forward, left and right**; an example of a set of commands were stored in the **commands.xml** file from the **data** directory.

Implement the following:

- a. Load the XML data in memory;
- b. Add two additional commands:
  - i **start** - at the beginning of the command set;
  - ii **end** – at the end of the command set;
- c. Add an **index** attribute to all command node, its value being equal with its 0-based index of each command node;
- d. Change the version of the **commands** element to 2.0;
- e. Update the file with the new data;
- f. Export the updated file in JSON, using a structure of your own design (explain briefly in a code comment why did you chose a certain JSON structure).