1) DIO Configuration tool

Main idea:

Each embedded system project has its own configuration for its drivers.

For example:

- DIO
- Timers
- Communication drivers.

In this project, the target is to make a GUI configuration tool for DIO to generate its configuration files instead of manually editing the existing files.

The tool shall be able to configure all the micro-controller pins; each pin shall have its configurations parameters.

The tool shall have three buttons for configuration:

• New -> create a file with any extension to save the current configurations.

• Save -> to save the changes you made to the file.

• Load -> to load a previous configuration.