EXPERIMENT 1: CUSTOM COMMAND FOLLOWER

Objective

This experiment's objective is to introduce the basic movement capabilities of the Chelonia Bot. By executing this code, you will make the Chelonia Bot move forward, stop, turn right, and stop again.

Hardware Setup

Before running the experiment, ensure that you have assembled the Chelonia Bot hardware as per the assembly instructions in Section 2.1. Additionally, make sure you have connected the Chelonia Bot to the Arduino IDE, as explained in Section 2.3.

Motor Pins:

- Connect the left motor to the following pins:
  - Motor 1A(IN1): Connect to pin 8
  - Motor 1B(IN2): Connect to pin 9
- Connect the right motor to the following pins:
  - Motor 2A(IN3): Connect to pin 10
  - Motor 2B(IN4): Connect to pin 11

Ensure the motor connections are secure and follow the pin descriptions provided for accurate functionality.

Code Example: Custom command follower

Expected Results

- The Chelonia Bot will move forward for 1 second.
- The Chelonia Bot will stop for 1 second.
- The Chelonia Bot will turn right for 1 second.
- The Chelonia Bot will stop for 1 second.

Users have the flexibility to customize the delay values in the provided code according to their specific requirements.