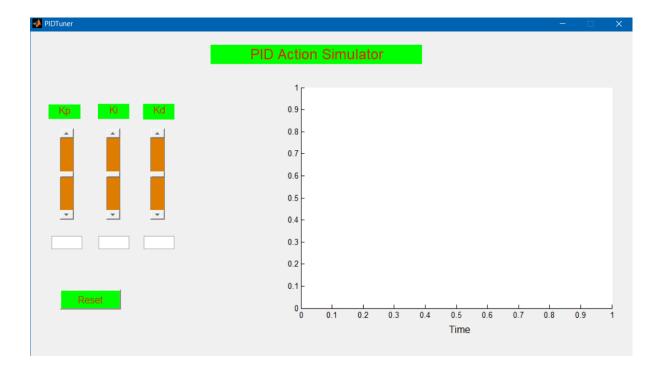
APPLICATION 1: PID ACTION SIMULATOR

The application is designed to simulate the effects of P, I, D, PI, PID using MATLAB GUI. As the values of these control parameter changes for a function, one can monitor the effects in the adjacent graph in the GUI. A person can tune its system according to its requirements through this application.

To make this application and to execute it we only require MATLAB.

Steps to run the application:

- Download the application folder from the website (https://sujoyroyskr.github.io/DynamicAnalytics/Pid.html).
- 2. Add the downloaded folder to your MATLAB directory.
- 3. Run PIDTuner.m file. This will run the MATLAB GUI application.
- 4. Change the Kp, Ki, Kd and see the effect of these controls in the adjacent graph.
- 5. Before closing the application, drop down the values of Kp, Ki, Kd to zero and click reset.



Screenshots of the application:



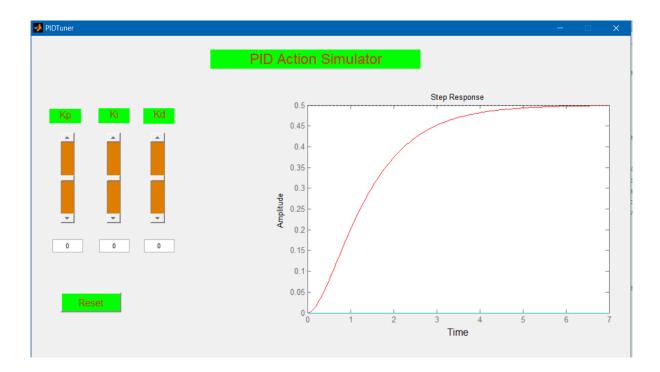
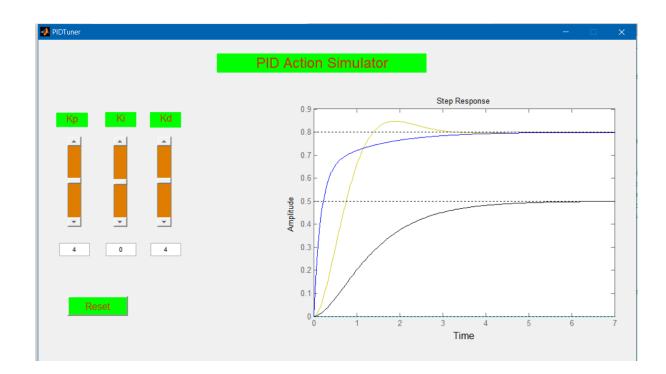


Fig 2: Step response without control





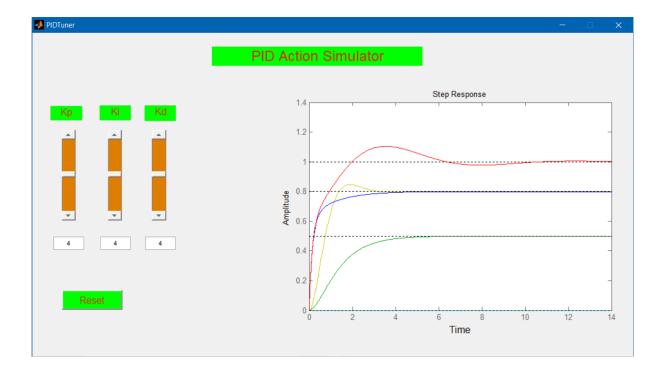


Fig 4: PID control