

RESPONSE OF NORMAL PID CONTROL

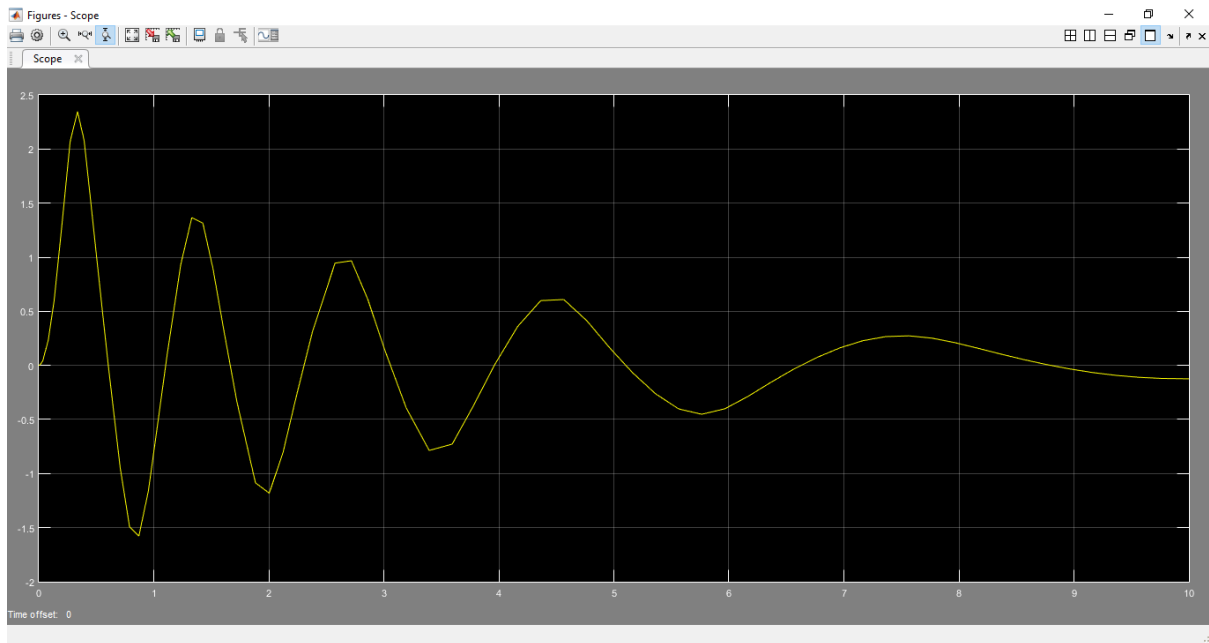


Figure 1: Plot of angle between axis perpendicular to bot's base and the axis perpendicular to the ground (axis along acceleration due to gravity)

RESPONSE OF THE NEW ALGORITHM

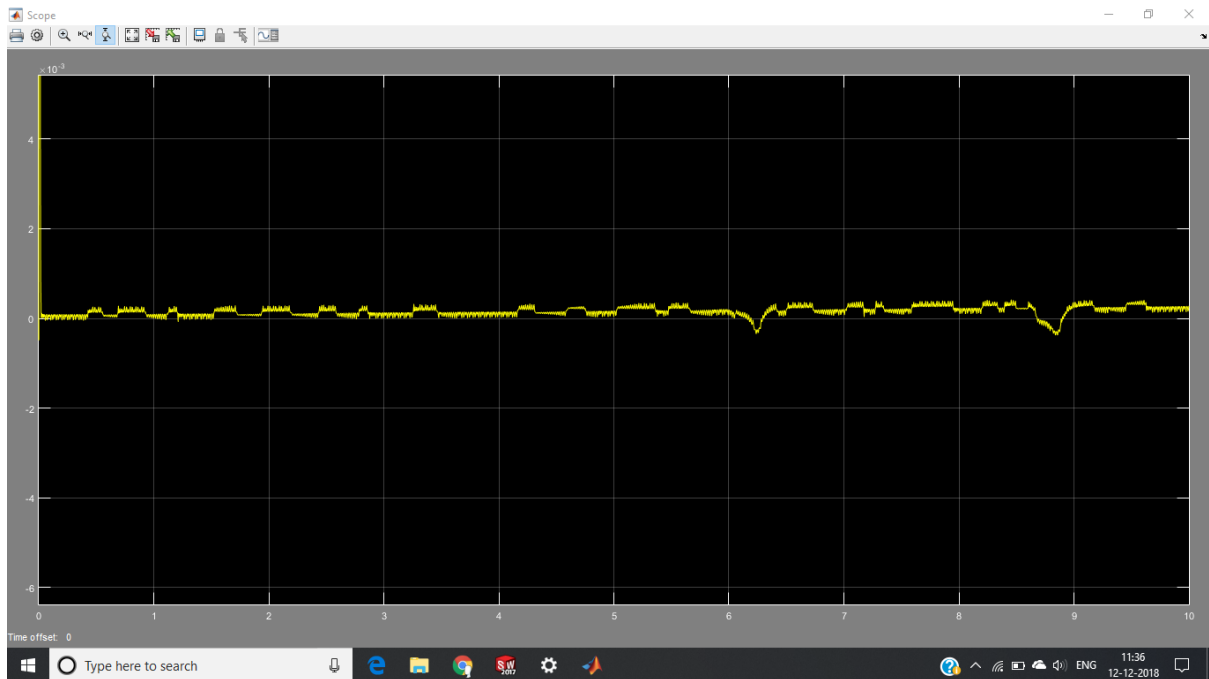


Figure 2: Plot of angle between vertical axis of the bot and axis perpendicular to the ground (axis along acceleration due to gravity)

**** Each cell of y-axis corresponds to 2×10^{-3} units**