REPORT

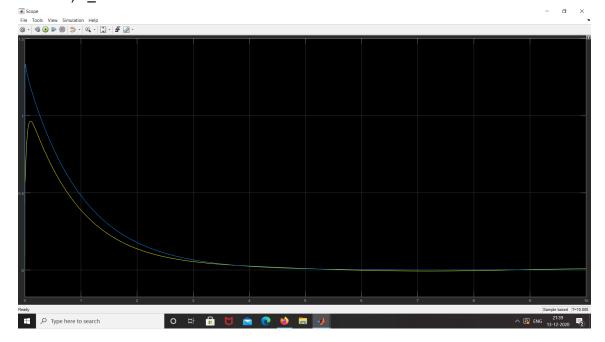
GRAPHS

1) first part (Model - based)

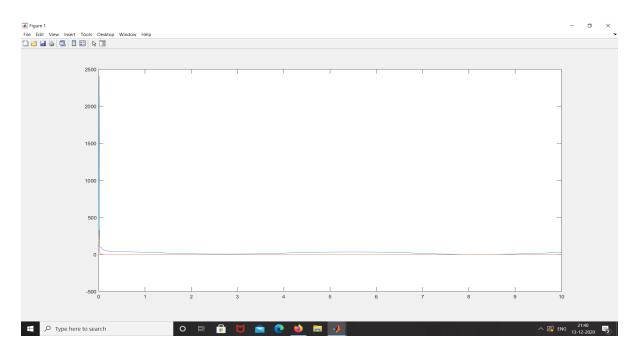
i) e vs t



ii) e_dot vs t

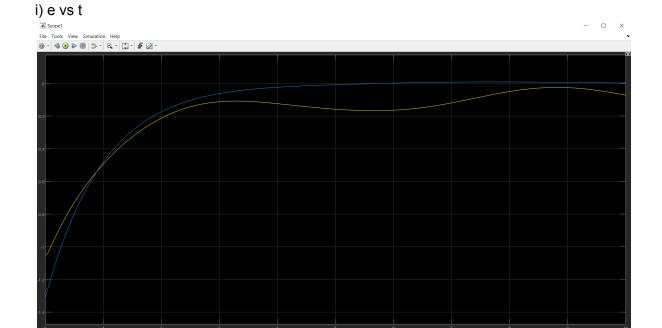


iii) tou vs t

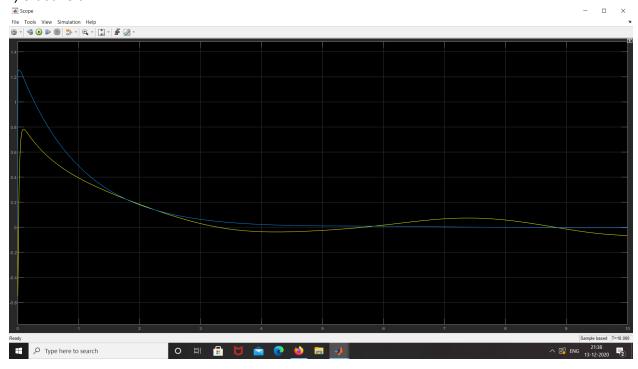


Second part (Proportional derivative)

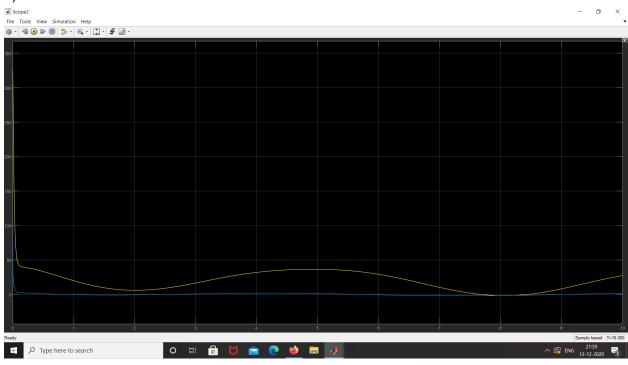
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ii) e dot vs t



iii) tou vs t



COMPARISONS

Model - based controller has a better accuracy as evident from the comparison of e vs t graphs. Model - based controller requires lesser control effort in comparison to PD controller as can be seen in the tou vs t graph.

Model-based controller is better one in terms of the tracking accuracy and the control effort. Also, the time required for e to become zero is less in model-based so it also indicates a good point for model based.