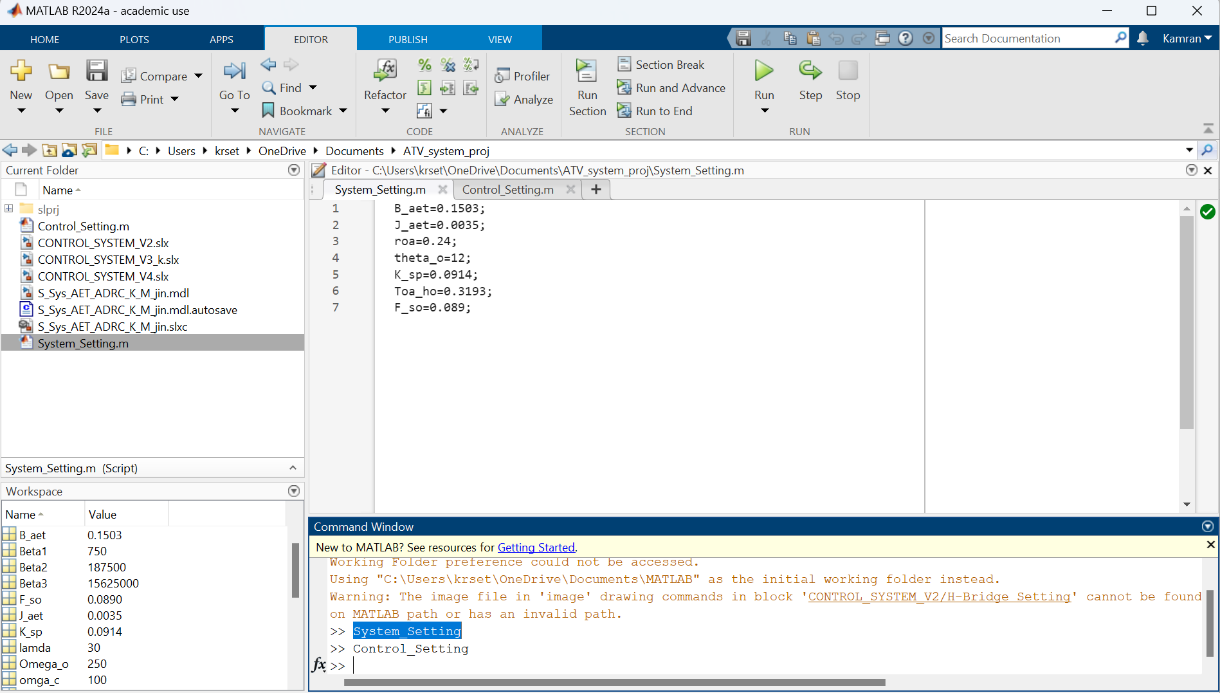
To run the throttle valve code under the proposed ADRC, you have to follow the following steps:

1. Open and then run System\_Setting.m to save the system parameters in workspace as shown below: (run without changing any value)



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1. Open and then run Control\_Setting.m to save the control parameters in workspace as shown below:

The control parameters have two gains including Omega\_o and omega\_c

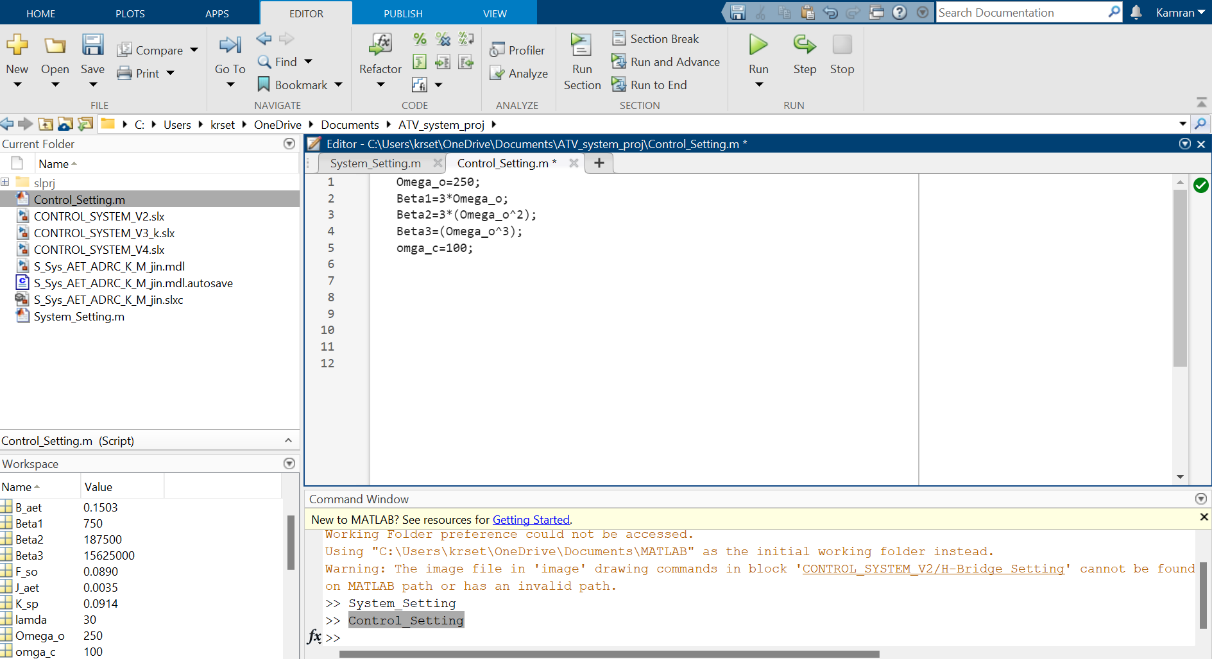
that should be tuned gradually. So, you can start with the small gains like Omega\_o= 15 and omega\_c=5. If you see a poor performance, you should increase those gains gradually like Omega\_o= 20 and omega\_c=10. Please keep going till getting a better performance.

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1. After running .m files, you can run the main code of the project (named by CONTROL\_SYSTEM\_V4).