Course Name: INTELLIGENT FEEDBACK AND CONTROL

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Department Name: Multi-disciplinary primarily for Mechanical, Electrical, Aerospace and Chemical engineering streams

Institute Name: Indian Institute of Technology Bombay

Week - 04

Lecture - 26

In the MATLAB environment, we provide you three MATLAB files, pendulum environment that describes the simulated environment, and then a training environment for the policy gradient methodology. And this particular MATLAB code shows the testing results and so on. This readme.txt gives you the idea about what all each of these particular scripts or the MATLAB files are giving you. For example, pendulum environment defines the pendulum environment for the RL algorithm, whereas test underscore PG script gives you the trained RL agent in the pendulum environment, which you will be using it into the train environment case. How to use it?

That also is given. First, if you are not making any changes to it and just to see how the output comes up, just simply apply this, run this particular train underscore env underscore pg file script, and then run this test underscore pg script. And then I would encourage you to look into the code and each of this code is self-explanatory and you would be able to make sure that even if you are changing the mass changes to the pendulum or changing the length of the arm, you should be able to train the agent as well as do the testing of the RL agent. Thank you so much.