Indian Institute of Engineering Science and Technology, Shibpur

Department of Computer Science and Technology

Artificial Intelligence Laboratory

Assignment -8 (Do it in Home)

Automated Theorem Prover in Propositional Logic

(To be evaluated when the Institute reopens)

Full Marks for Assignment 8: 10

- **Implement an automated theorem prover in PL using Prolog.**
- **Each clause should be contained in a list.**
- **Use PL-resolution algorithm.**
- **Output true (and the steps through which it was arrived) or false.**

Note:

- **Full Marks for Assignment 7: 20**
- **Take Depth Limit for DFS = 8 (instead of 10) in Assignment -7**