CSD311 - AI

Assignment 3 [Total marks 15] (To be done in group of 2)

Posting Date: 15/ Oct/ 2021

Submission dates:

- Early Submission: 21/Oct/2021 with execution of the programs for min 3 test data.
- Late submission: 25/Oct/2021 with evaluation to be done out of 12 marks.

Note:

- 1. Plagiarism zero tolerance. If found code copied, -15 will be awarded.
- 2. Evaluation in the respective Lab class 22nd and 23th Oct.
- 3. Link will be provided for submitting the group name by 18th Oct.

Write Prolog Programs for the following problems and submit programs with run of each for 2-3 test data

- To check if a list L is prefix or suffix of M i.e., [2,3] is prefix and [3,5,6] is suffix of [2,3,5,6] (3+3)
- Define binary tree data structures in Prolog and write prolog programs for the following
 - Insert a node in the binary search tree. (2)
 - Create binary search tree (Values on left sub tree of a node are less and in right sub tree are greater than the value in the node) using insert. (3)
 - Create a mirror image of the binary tree. Swap nodes at each level. (4)