Course on AI-CSD311

Assignment 3 [Total marks 10] (To be done individually)

Posting Date: 14/ Feb/ 2021

Marks: 10

Submission date:

- Early bird submission: 20th Feb 3.30pm
- Normal Submission: 24/Feb/2021 by 9 pm along with execution of the programs for min 3 test data.

Note:

1. Early birds will be rewarded with 2 extra points if have given demo in the Lab class of 20th and marks obtained in the assignment is > 8.
2. Plagiarism zero tolerance. If found code copied, -10 will be awarded.
3. Remaining will be evaluated in Lab class of 27th Feb.

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

1. Find the length of a list. (1 mark)
2. Find the maximum of a list elements (1 mark)
3. Find the last element of a list. (1 mark)
4. Find the sum of the elements of a list. (1 mark)
5. Find the kth element of the list. (1 mark)
6. Reverse the elements of a list (1 mark)
7. Check if a given number is palindrome. (1 mark)
8. Find the sum of positive and negative separately of the elements of given list (1.5 marks)
9. Find the sum of first n term of Fibonacci series (1.5 marks)