Course: Artificial Intelligence Lab Assignment List: Week-3

- 1. Write a Prolog program to implement maxlist(List, Max) so that Max returns the largest number in the list of numbers List (using CUT and without using CUT).
- 2. Write a Prolog program to implement sumlist(List, Sum) so that Sum returns the sum of a given list of numbers List.
- 3. Write a Prolog program to implement two predicates evenlength (List) and oddlength (List) so that they are true if their argument is a list of even or odd length respectively.
- 4. Write a Prolog program to implement reverse (List, ReversedList) that reverses a list.
- 5. Write a Prolog program to implement palindrome (List).
- 6. Write a Prolog program to append for two lists.
- 7. Write a Prolog program, remove (Before, After, Item) that generates a new list "After" after the removal of "Item" from the list "Before" at all locations.
- 8. Write a Prolog program, insert_nth(item, n, into_list, result) that generates a new list "result" after inserting nth element into the list "into list".
- 9. Write a Prolog program to remove the N-th item from a list.
- 10. Write a Prolog program that compares two lists and returns the number of locations where they differ (element wise).