**ASSIGNMENT I**

1. Write a prolog program to compute the sum of the list.
2. Write a prolog program to find the maximum of two elements.
3. Write a prolog program to find the length of the list.
4. Write a prolog program to find the GCD.
5. Write a prolog program to check same length.
6. Write a prolog program to concatenate of two list.
7. Write a prolog program to find out the maximum element of list.
8. Write a prolog program tofind out the factorial of an element.

**ASSIGNMENT II**

1. Write a prolog program to find fibonacci series.
2. Write a prolog program to test whether a list is a double header or not.
3. Write a prolog program to test whether a list is not exactly of two elements list.
4. Write a prolog program to determine whether an element X is a member of a list L.
5. Write a prolog program to find the reverse of a list.
6. Write a prolog program to add an element.
7. Write a prolog program to define a predicate between which generates all integers X.
8. Write a prolog program to find last element.

**ASSIGNMENT III**

1. Write a prolog program todelete all occurrence of an element.
2. Write a prolog program totest whether a list X is a subset of a list Y.
3. Write a prolog program tointersect of two list X and Y.
4. Write a prolog program tounion of two list X and Y,
5. Write a prolog program to divide a list in two list which are appropriately of same length.

**ASSIGNMENT IV**

1. Write a prolog program to find the maximum of two elements using CUT.
2. Write a prolog program to sum of a list using accumulator.
3. Write a prolog program to length of list using accumulator.
4. Write a prolog program to find the maximum of a list elements using CUT.
5. Write a prolog program to GCD of two elements with CUT.
6. Write a prolog program to find the GCD of list.
7. Write a prolog program to reverse of list using accumulator.

**ASSIGNMENT V**

1. Write a prolog program to select an element from a list.
2. Write a prolog program to sort all the elements of a list using merge sort.
3. Write a prolog program to sort all the elements of a list using quick sort.
4. Write a prolog program to sort all the elements of a list using permutation sort.
5. Write a prolog program to sort all the elements of a list using insertion sort.
6. Write a prolog program to sort all the elements of a list using selection sort.
7. Write a prolog program to sort all the elements of a list using bubble sort.