Assignment -1

- 1. WAP to implement the following programs using recursion.
 - a) Factorial
 - b) Fibonacci Series
 - c) Greatest Common Divisor
 - d) Linear Search
 - e) Binary Search
 - f) Tower of Hanoi
- 2. Write a C program to find the sum of individual digits of a positive integer.
- 3. Write a C program to generate all the prime numbers between 1 and n, where value of n is supplied.
- 4. Write a C program to find the roots of a quadratic equation.
- 5. Write a C program to determine if the given string is a palindrome or not.
- 6. Write a C program that uses functions to perform the following:
 - a) Addition of Two Matrices
 - b) Multiplication of Two Matrices
- 7. Write a C program to count the lines, words and characters in a given text.
- 8. Write a C program to construct a pyramid of numbers.
- 9. Write a C program to demonstrate the concept of one-dimensional array finding the sum of array elements.
- 10. WAP to implement Magic Square.
- 11. WAP to implement Call by Value and Call by Reference mechanisms.
- 12. WAP to implement three different ways to swap two variables without using a third variable.

Note: while Submitting your code make sure to add screenshot of your output.