C Programming – Lab Report IV

- 1. Write a program to find factorial of a number using recursion.
- 2. Write a program to find the sum of 1+11+111+111+... using recursive function. Ask users the number of terms. For example, if users say 4, find the sum of 1+11+111+1111.
- 3. Write a program to find n^{th} term of Fibonacci series using recursive function.
- 4. Write a program to generate Fibonacci series using recursive function.
- 5. Write a program to find power of a number using recursive function.
- 6. Write a program to find sum of digit of number using recursive function. For example, if user gives 482, then calculate 4+8+2.
- 7. Write a program to find HCF (GCD) and LCM using recursive function.
- 8. Write a program to reverse a number using recursive function.
- 9. Write a program to find sum of natural numbers using recursion.
- 10. Write a program to count digits of a given number using recursion.
- 11. Write a program to check whether a given number is prime or not using recursion.
- 12. Write a program to add & subtract two complex numbers (x + i * y) & (a + i * b) using function.
- 13. Write a program to sort a set of n numbers in ascending order using function.
- 14. Write a program using function to circularly shift their values given three variables x, y, and z. In other words, if x = 5, y = 9, and z = 8; after circular shift the result needs to be y = 5, z = 9, and x = 8. Call the function with variables a, b, and c to circularly shift their values.
- 15. Write a program to multiply two matrices (if possible) using function.