

## **Assignment 1**

### **Unit 1**

1. Define precedence and associativity?
2. Discuss about data types in C?
3. Explain about operators in C program?
4. Write about formatted input and formatted output?
5. What is the use of printf and scanf function in C?
6. Explain about different type conversions in C?

### **Unit 2**

1. Define an array and write a syntax for declaration.
2. Explain looping statements in C with syntax and example program.
3. Explain about goto statement
4. What are the control statements? Explain conditional control statements with examples.
5. Differentiate break and continue in C

#### **Programs**

1. Write a C program for swapping of two numbers
2. Write a program to find a smallest element in an array
3. Write a program to find the sum of the digits in a given number
4. Write a program to add two matrices and print those in matrix form, the values of the matrix are to be taken from the user.

### **Unit 3**

1. What are the advantages of functions? Define recursion
2. Define a function. Explain how a function is declared, defined and called with syntax and example program.
3. Explain how functions are nested with an example program.
4. Explain about different categories of functions.
5. What is meant by a string? Explain the reading and writing functions of a string with example program.

#### **Programs**

1. Write a recursive program using function to form a Fibonacci sequence where the first two inputs are given by user choice
2. Write a program to find factorial of a number using recursion.