**LAB SHEET-I**

1. A hospital wants to create a database regarding its indoor patients. The information to store includes:

• Name of the patient

• Date of admission.

• Disease.

• Date of discharge.

Create a structure to store the date (year, month and date as its members). Create a base class to

store the above information. The member function should include functions to enter information and display a list of all the patients in the database. Create a derived class to store the age of the patients. List the information about all the pediatric patients (less than twelve years in age).Use file I/O operations. The hospital.txt file must contain all the patients’ details and pediatric.txt must contain the details of patients of age below 15.

1. Create a function template named circleArea(). The function receives a parameterized argument representing the radius of a circle, and returns a double representing the circle’s area. (The area is computed as 3.14 multiplied by the radius squared). Write a main()function that demonstrates that the function works correctly with either an integer or a double argument.
2. Create a Job class that holds a Job ID number and the cost of the Job. Include insertion and extraction operators. Create a JobException class that holds a Job and an error message. When the user enters Job data, if the Job fee is below $250, then create a JobException object and throw it. Write a main()function that declares an array of eight Job objects. If a JobException object is thrown during the data entry for any Job,require the user to enter data for a new Job, and replace the invalid Job.