LIST OF LAB PROGRAMS

PART A

1. Write a C++ program to manage the details of a book in a library. Create an object of the class and call displayDetails() function to display the book's information.
2. Write a C++ program to create an employee class containing following data members: employee name, employee number, basic, DA, IT, net salary and calculate the gross salary of the employee.
3. Write a C++ program to demonstrate hybrid inheritance
4. Write a C++ program to illustrate function overloading in adding the distance between objects.
5. Write a C++ program to create a class template to find the maximum of two numbers. The class template should work with different data types such as int and float. The program should include a member function that compares the two numbers and returns the maximum.
6. Write a C++ program to create a function template that can perform various arithmetic operations, such as addition, subtraction, multiplication, and division on two operands. The program should accept different data types (such as int, float, and double) for the operands and demonstrate the use of the function template with at least two different data types.
7. i.) Write a C++ progam to demonstrate the use of friend function.

   ii)Write a C++ program to demonstrate the exception handling.

8. Write a C++ program using class to process shopping list for a departmental store. The list include the details such as the code number and price of each item and perform the operations like adding, deleting items to the list and printing the total value of a order.
9. Write a C++ program to overload unary operator as i) member function ii) friend function.
10. Write a C++ program to perform the addition and subtraction of two complex numbers using the binary (+) and (-) operator.