Roll No.

Name of the Student:

Batch:

Date of Submission:

**Assignment No 07**

**Aim:**

To understand and implement the concept of templates in C++.

**Problem Statement:**

Develop an object-oriented program in C++ to Perform bubble sort operation using the template for integer and float data type

**Objectives:**

1. To learn concepts of templates C++
2. To use templates in bubble sort

**Theory:**

Explain following concepts

* + Different type templates along with syntax
  + Vectors in STL
  + Bubble sort algorithm

# Algorithm:

1. Declaration of bubble template class

2. Write bubble sort algorithm inside bubble template class

3. Accept number for sorting

4. Call sorting template

5. Display sorting elements

# Platform: 64 –bit Open source Linux

**Input: Array of integer or float**

**Output: Sorted array**

**Conclusion:** Hence, learned to create templates for sorting techniques.

**FAQs:** write answers

1. What are the different types of templates in C++?
2. What are different sorting techniques and when to use bubble sort technique
3. What is the difference between function overloading and templates? which one should be preferred in C++