**Assignment No: 4**

**Problem Statement:** Write a function template and class template selection Sort. Write a program that inputs, sorts and outputs an integer array and a float array.

**Aim of Assignment:** Understand the concept of Template/Reusability.

**Description:**

1. **Template:** A template is a simple and yet very powerful tool in C++. The simple idea is to pass data type as a parameter so that we don’t need to write the same code for different data types. For example, a software company may need sort() for different data types. Rather than writing and maintaining the multiple codes, we can write one sort() and pass data type as a parameter.
2. **Function Templates:** We write a generic function that can be used for different data types. Examples of function templates are sort(), max(), min(), printArray().

**What is the difference between function overloading and templates?**  
Both function overloading and templates are examples of polymorphism feature of OOP. Function overloading is used when multiple functions do similar operations, templates are used when multiple functions do identical operations..

**OOP Concept Used:**

1. Class
2. Template

**Conclusion:** In this experiment we have learnt regarding new concepts OOP Of Template