**ASSIGNMENT NUMBER 6**

**STATEMENT**: **Create a class template to represent a generic vector. Include following member functions:  
i. To create the vector.  
ii. To modify the value of a given element   
iii. To multiply by a scalar value  
iv. To display the vector in the form (10,20,30,…)**

**AIM**:To create a class template to represent a generic vector.

**DESCRIPTION: Generics is the idea to allow type (Integer, String, … etc and user-defined types) to be a parameter to methods, classes and interfaces. For example, classes like an array, map, etc, which can be used using generics very efficiently.**

**OOP CONCEPT USED**:

1. Class Vector : A vector is a sequence container class that implements dynamic array, means size automatically changes when appending elements. A vector stores the elements in contiguous memory locations and allocates the memory as needed at run time.

**CONCLUSION**: In this assignment, we learned the template class and generic vector.