

**Branch : MCA**

**Semester : Spring Semester 2019-20**

**Course Code : CA3205**

**Laboratory Name : Numerical Computing using C++**

**Assignment No. : ASSIGNMENT – 10 (GROUP- I & II)**

**Assignment Title : Templates**

- 1) To print an array of elements, use a function template for arrays of i. integers, ii. doubles, iii. Strings, and iv. Complex numbers
  
- 2) Use a function template to perform insertion sort on the arrays of i. integers, ii. doubles, iii. Distances (feet, inches)
  
- 3) Stack implemented using a dynamic array. Demonstrate the operations of Stack template for the types i.integers, ii. doubles, iii. points (xCo, yCo).
  
- 4) Queue implemented using a Vector of STL
  
- 5) Define a class template Cuboid with dimension of type i. char, ii) integer, and iii) double and following information.  
Class : Cuboid  
Members: len, wid, hei  
Functions: getdata(), printdata(), volume()  
  
\* implement necessary overloading function for char type.

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