

Semester: IV

Course Code: 22UCSL403

Course Title: Object Oriented Programming Laboratory

Division: A (A1, A2, A3)

Academic Year: 2023-24

Practice Programs-4

- 1) Write a Java program that provides a generic sort method that can sort elements of any reference type. [Hint: use compareTo () method available in Comparable<T> interface]
- 2) Student in SDMCET is identified by USN, first name, last name, branch and division. Write a Java program using generics to provide facility to sort the students based on USN, first name and division. The sort option is to be read by the user.
[Hint: The program must implement compareTo() method available in Comparable<T> interface]
- 3) Postgraduate course of the CSE department can accommodate a maximum of 20 students. Each PG student in the department is identified by his/her Roll No, USN, Name, Semester and Mobile Number. Using appropriate Collection class, write a Java Program to simulate the following scenarios:
 - i) On request, the capacity was increased from 20 to 25
 - ii) Only 3 students enroll for the course
 - iii) Two students bearing Roll Numbers 2 and 3 voluntarily unroll from the course
 - iv) After a month, two students get enrolled in the course
 - v) Print the information of all the students currently enrolled in the course