Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam – 603 110

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Department of Computer Science & Engineering
UCS1313 – Object Oriented Programming Using Java Lab

Exercise - 7 – Generics

Objective:

1. To implement generic types – generic classes and methods

Sample Learning Outcome:

1. Learning to create a generic class and method

2. Use the generic class to store/manipulate elements of different datatypes

Best Practices:

1. Class Diagram usage

2. Naming convention – for file names, variables

3. Comment usage at proper places

4. Prompt messages during reading input and displaying output

5. Incremental program development

6. Modularity

7. All possible test cases in output

Exercises:

1. Write a Java program to find the maximum value from the given type of elements using a generic function.
2. Write a Java program to create a generic stack using interface and perform the operations.
3. Write a Java program to perform a sorting operation on various types of elements using a generic method.