School of Computer Science and Engineering

LAB   Exercises

Course Code	:	ITA5002 – Problem solving with Data Structures	Date	:	20-12-2021
Lab Experiment	:	Sorting Algorithms	Slots	:	L3 + L4
Instructors	:	Dr. Ramesh Ragala			

Objective: To understand the sorting Algorithms.

1. Implement the following sorting algorithm the specified constraints
   A. Bubble sort
   B. Insertion Sort
   C. Selection Sort
   D. Radix Sort
   E. Merge Sort
   F. Quick Sort
   G. Bucket Sort
   H. Heap Sort
2. Constraints: As a programmer you need to read the input from the text file and produce the output in the text file.
3. The output file should contain the information of each pass in the corresponding sorting procedure. It should also contain the information of number of comparisons and swapping in the corresponding procedure.