EC4070: Data Structures and Algorithms

Department of Computer Engineering, Faculty of Engineering University of Jaffna

Prelab 1

- Write a Java program that reads a list of integers from the user and prints the sum, average, maximum, and minimum values from the list. Use loops and basic input/output operations.
- 2. Write a Java program to demonstrate the use of classes and objects. Create a Book class with attributes like title, author, and price. Add methods to display book details. In the main method, create an array of Book objects and display their details.
- 3. Implement linear search in Java. Write a method that takes an array of integers and a target value, then returns the index of the target if found, or -1 if not.
- 4. Write a Java program that implements the insertion sort algorithm. The method should take an unsorted array and sort it in ascending order.

Guidelines:

Submit the code files in a zipped folder by naming as 2022EAAA_Prelab (AAA is your registration number

No Plagiarism (Zero marks will be provided for plagiarism)

Late submissions will have penalty