



COMSATS University, Islamabad

Islamabad Campus

Department of Computer Science

Data Structure and Algorithm

ASSIGNMENT-4 (CLO-3)

CLO-3

Compute the complexity of following searching and sorting algorithms. Elaborate the step by step working of the algorithms on specific set of data. Also discuss the best and worst cases of algorithms.

- Linear Search Algorithm.
- Binary Search Algorithm.
- Hashing by Linear Probing Method.
- Hashing by Chaining Method.
- Bubble Sort Algorithm.
- Selection Sort Algorithm.
- Insertion Sort Algorithm.
- Merge Sort Algorithm.