**Day 5:**

Sorting technique

What type of data we store in container.

Data size

Time complexity and extra space to hold the data.

Bubble sort: Bubble sort is a simple comparing – based sorting algorithms.

It repeatedly step through the list of sorted data, compared each pair of adjacent item or data and swap them if they are in wrong position.

Selection sort : it is an another simplest sorting technique. It works by dividing the input list or array into two parts.

1st is unsorted element or data

2nd is sorted elements or data

Initially the sorted sub list is empty. While the unsorted sub list contains all elements or data.

1. Find the minimum element. Iterate through unsorted sub list to find the smallest or largest depending upon Asc/des element.
2. If condition true swap with first unsorted element. Swap this min or max with first element of the unsorted sub list.

Insertion sort

Merge sort

Heap sort

Merge sort : Merge sort is an efficient, comparing base sorting technique.