

Sardar Vallabhbhai National Institute of Technology, Surat
Department of Artificial Intelligence
Data Structure (AI102)
B.Tech I - II Semester
Assignment-9

1. Given an array, arr[]. Sort the array using bubble sort algorithm.

Examples : **Input:** arr[] = [10, 9, 8, 7, 6, 5, 4, 3, 2, 1]

Output: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

2. Given an array arr[], its starting position l and its ending position r. Sort the array using the merge sort algorithm.

Examples: **Input:** arr[] = [4, 1, 3, 9, 7]

Output: [1, 3, 4, 7, 9]