

Assignment: 4 Subject: Data structures and algorithms

Section: D12 Total Marks 30

Submission Date: 21 Jun 2023

INSTRUCTIONS

Note: Please read instruction before starting assignment and follow all the instructions. Only submission through portal is acceptable. Late submission or submission through email will not be accepted.

- 1. Submit your solution in a word file, solution in any other format will not be acceptable.
 - a. Write your Name and registration number in word file.
 - b. Image of handwritten answer is acceptable but that images should be added in word document.
- 2. Submission is created, submit on portal before submission deadline.
- Q1. Create an AVL Tree from a given list. Show complete steps and rotations to get full marks.

 (Code Not Required). (10)

3, 7, 2, 15, 20, 1, 90, 92, 94

Q2. Create an AVL Tree from a given list. Show complete steps and rotations to get full marks.

(Code Not Required). (10)

12, 7, 2, 3, 4, 1, 17, 19, 10, 11, 22, 26

Q 3. Write a C++ complete program for merge the given heaps. (Code Required). (10)

For example, suppose we have Heap A and Heap B. To merge these heaps, the resulting merged heap would be Heap C.





