

Department of Computer Science and Engineering,
Anna University, Chennai- 600025
CS23302 – Data Structures and Algorithms
Practical
July – November 2026
Year/Sem/Batch : II/III/ N

Exercise: 09	AVL Trees	28 – Aug - 2026

Spot (5 Marks)

1. Develop a program using an AVL Tree to manage vehicles in a smart parking system. Use the Vehicle Number as the key.

Implement:

- Park a vehicle – Insert
- Remove a vehicle – Delete
- Search for a vehicle
- Display parked vehicles using Inorder Traversal
- Maintain AVL balance using LL, RR, LR and RL rotations

Sample: TN01AB1234, TN02CD5678, TN03EF9012