Data Structures and Algorithms – Assignment 7

BST, AVL Tree - Applications

1. Given a sorted (increasing order) array with unique integer elements, implement an algorithm to create a binary search tree with minimum height.
2. Implement a function to check if a binary tree is a BST or not. video
3. Implement a function to find the in-order successor of a given node in a BST. You may assume that each node has a link to its parent. video
4. Find the k^{th} smallest element in a BST.