Assignment No. 2

1. Construct AVL Tree for the following sequence of numbers-

50 , 20 , 60 , 10 , 8 , 15 , 32 , 46 , 11 , 48

1. Create RBT

Insert 2, 1, 4, 5, 9, 3, 6, 7

1. Suppose the numbers 7 , 5 , 1 , 8 , 3 , 6 , 0 , 9 , 4 , 2 are inserted in that order into an initially empty binary search tree. The binary search tree uses the usual ordering on natural numbers.

What is the inorder traversal sequence of the resultant tree?

1. The preorder traversal sequence of a binary search tree is-

30 , 20 , 10 , 15 , 25 , 23 , 39 , 35 , 42

What one of the following is the postorder traversal sequence of the same tree?

1. 10 , 20 , 15 , 23 , 25 , 35 , 42 , 39 , 30
2. 15 , 10 , 25 , 23 , 20 , 42 , 35 , 39 , 30
3. 15 , 20 , 10 , 23 , 25 , 42 , 35 , 39 , 30
4. 15 , 10 , 23 , 25 , 20 , 35 , 42 , 39 , 30
5. Construct AVL Tree for - 7,14,2,5,10,33,56,30,15,25,66,70,4