भारतीय सूचना प्रौद्योगिकी संस्थान गुवाहाटी
Indian Institute of Information Technology Guwahati
DATA STRUCTURES LAB (CS111)
ASSIGNMENTS–10

Assignments to be completed during lab sessions

1. Write a function to find the node with a given key value in a given binary tree.

2. Write a function to find the height of a given node in a binary tree.

3. Write a function to find the depth of a given node in a binary tree.

4. Write a function to create the mirror of a binary tree.

5. Write a function to make a clone of a given binary tree.

6. Write a function to compare the keys of two trees. It should return 1 if they are the same and 0 otherwise.

7. Write a function to delete a given binary tree.

8. Write a function to find the in-order predecessor of a given node in a binary tree.

9. Write a function to find the in-order successor of a given node in a binary tree.

10. Write a function to count the number of leaf nodes in a given tree.

11. Write a function to count the number of non-leaf nodes in a given tree.

12. Write a function to print the keys of the leaf nodes in a given tree following in-order traversal.

13. Write a function to print the keys of the non-leaf nodes in a given tree following in-order traversal.