

## **NORTH SOUTH UNIVERSITY**

## Department of Electrical and Computer Engineering

## Assignment – 07

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Course No. : CSE 225

Course Title : Data Structures and Algorithm

Section: 06

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```
Structure of Tree:
template < class ItemType>
struct Tree Node
   ItemType info;
   Tree Node* left;
   Tree Node * right;
J;
In-Onder Traversal:
Void In Onder Traversal (Tree Node * tree)
    if (free != NULL) {
        In Onder Traversal (tree -> left);
        cout << tree-> info << " ";
        In Orden Traverval (tree -> right);
```

```
Pre-Orden Traversal:
Void PreOndenTraversal (Tree Node* tree)
    if (tree != NULL) {
       cout << tree -> info << " ";
       PreOnder Traversal (tree -> left);
       Prie Onden Traverval (tree-) right);
Post-Onder Traverval:
Void Post Onden Traversal (Tree Node * tree)
    if (thee != NULL) {
       PostOnden Traversal (tree -> left);
       Post Orden Traverval (tree -> right);
      cout << tree -) into << " ";
```

For the given tree,

In-Onder: 2 7 5 9 6 8 11 3 4 1

Pre-Order: 11 9 7 2 5 8 6 4 3 1

Post-Onder: 257689314 #11