# Assignment - 9

Write a program to implement all the binary tree traversal methods using classes.

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https://github.com/RPChinhara-202117/DSA_Assignments.git

# Code:

```
28
29  // Printing a Binary Tree according to InOrder Traversal
30
31  void InOrder(Node *node)
32  {
33      if(node == NULL)
34          return;
35
36      InOrder(node->left);
37      cout<<node->data<<" ";
38      InOrder(node->right);
39  }
40
41  // Printing a Binary Tree according to PreOrder Traversal
42
43  void PreOrder(Node *node)
44  {
45      if(node == NULL)
46          return;
47
48      cout<<node->data<<" ";
49      PreOrder(node->left);
50      PreOrder(node->right);
51  }
52
53  int main()
54  {
55      Node *root = new Node(1);
56      root->left = new Node(2);
57      root->right = new Node(3);
58      root->left->left = new Node(4);
59      root->left->right = new Node(5);
60
61      cout<<"\nPreOrder Traversal of Binary Tree is \n";
62      PreOrder(root);
63
```

```
48      cout<<node->data<<" ";
49      PreOrder(node->left);
50      PreOrder(node->right);
51  }
52
53  int main()
54  {
55      Node *root = new Node(1);
56      root->left = new Node(2);
57      root->right = new Node(3);
58      root->left->left = new Node(4);
59      root->left->right = new Node(5);
60
61      cout<<"\nPreOrder Traversal of Binary Tree is \n";
62      PreOrder(root);
63
64      cout<<"\nInOrder Traversal of Binary Tree is \n";
65      InOrder(root);
66
67      cout<<"\nPostOrder Traversal of Binary Tree is \n";
68      PostOrder(root);
69
70      cout<<endl;
71
72      return 0;
73  }
```

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# Terminal Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL                                  Code - TreeTraversal

rudrachinhara@dell-vostro:~/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignment-9/TreeTraversal$ cd "/home/rudrachinhara/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignment-9/TreeTraversal/" && g++ TreeTraversal.cpp -o TreeTraversal && "/home/rudrachinhara/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignment-9/TreeTraversal/"TreeTraversal

PreOrder Traversal of Binary Tree is
1 2 4 5 3
InOrder Traversal of Binary Tree is
4 2 5 1 3
PostOrder Traversal of Binary Tree is
4 5 2 3 1
rudrachinhara@dell-vostro:~/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignment-9/TreeTraversal$

main*  ⊗ 0 ⚠ 0                                  Ln 70, Col 16  Spaces: 4  UTF-8  LF  C++  Linux
```