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:

```
void Inorder(Node *node)

{
    if(node == NULL)
    return;

Inorder(node->left);
    cout<<node>->data<<**;
    Inorder(node->right);

// Printing a Binary Tree according to Preorder Traversal

void Preorder(Node *node)

{
    if(node == NULL)
        return;

    cout<<node>->data<<**;
    Preorder(node->right);

}

return;

cout<<node>->data<<**;
    Preorder(node>->left);
    Preorder(node>->left);
    Preorder(node>->right);

}

int main()

{
    Node *root = new Node(1);
    root>->left = new Node(2);
    root>->left = new Node(3);
    root>->left = new Node(3);
    root>->left = new Node(4);
    root>->left >-left = new Node(4);
    root>->left >-left = new Node(5);
    root>->left = new Node(5);
    root>->left = new Node(7);
    root>->left = new Node(7);
    root>->left = new Node(7);
    root>->left = new Node(7);
    root>-left = new Node(7);
    root>-left = new Node(7);
    root->left = new Node(7);
```

```
PreOrder(node->left);
PreOrder(node->right);
};
};

int main()
{
Node 'root = new Node(1);
root->left = new Node(2);
root->left = new Node(3);
root->left = new Node(3);
root->left = new Node(4);
root->left->right = new Node(5);
cout<<"\normaline"\text{new Node(1)};
cout<\"\normaline"\text{new Node(2)};
cout<\"\normaline"\text{new Node(3)};
cout<\"\normaline"\text{new Node(3);
cout
```

Terminal Output:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

sal/"TreeTraversal rudrachinhara@dell-vostro:~/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments$ cd "/home/rudrachinhara/Documents/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignments/CUH/3rd Sem/Data Structure and Algorithms/DSA_Assignments/Assignments/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 5 2 3 1
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$ |

Ln 70, Col 13 Spaces: 4 UTF-8 LF C++ Linux & Q
```