

## SourceCode

```
#include<iostream>
using namespace std;
struct node{
public:
    int data;
    node* left;
    node* right;
    node(int val){
        data=val;
        left=NULL;
        right=NULL;
    }
};

node* inputNode(){
    int ele;
    cout<<"***** Input of a Binary Tree *****\nIf you does not
want further(NULL) type: '-1'\nenter the element\n"<<endl;
    cin>>ele;
    if(ele==-1){
        return NULL;
    }
    node* root=new node(ele);
    root->left=inputNode();
    root->right=inputNode();
    return root;
}

void preorderPrint(node* root){
    if(root==NULL){
        return;
    }
    cout<<root->data<<" ";
    preorderPrint(root->left);
    preorderPrint(root->right);
}

int main(){
    struct node *root=inputNode();
    cout<<"Preorder: ";
    preorderPrint(root);
    cout<<endl;
    cout<<"Inorder: ";
    inorderPrint(root);
    cout<<endl;
    cout<<"Postorder: ";
    postorderPrint(root);
    cout<<endl;
}
```

# Output

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  2: Code  +
\" ; if ($?) { g++ -std=c++17 13_Traversal_1.cpp -o 13_Traversal_1 } ; if ($?) { .\13_Traversal_1 }
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
2
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
4
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
5
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
3
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
6
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
7
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
***** Input of a Binary Tree *****
If you does not want further(NULL) type: '-1'
enter the element
-1
Preorder: 1 2 4 5 3 6 7
Inorder: 4 2 5 1 6 3 7
Postorder: 4 5 2 6 7 3 1
PS C:\Users\anil kumar\Documents\anil\vscode\DataStructure in nsut>
```