**14.Implementation of Tree Traversals in C**

#include <stdio.h>

#include <stdlib.h>

struct Node {

int data;

struct Node\* left;

struct Node\* right;

};

struct Node\* createNode(int data) {

struct Node\* newNode = (struct Node\*)malloc(sizeof(struct Node));

newNode->data = data;

newNode->left = newNode->right = NULL;

return newNode;

}

void inorder(struct Node\* root) {

if (root != NULL) {

inorder(root->left);

printf("%d ", root->data);

inorder(root->right);

}

}

void preorder(struct Node\* root) {

if (root != NULL) {

printf("%d ", root->data);

preorder(root->left);

preorder(root->right);

}

}

void postorder(struct Node\* root) {

if (root != NULL) {

postorder(root->left);

postorder(root->right);

printf("%d ", root->data);

}

}

int main() {

struct Node\* root = createNode(1);

root->left = createNode(2);

root->right = createNode(3);

root->left->left = createNode(4);

root->left->right = createNode(5);

root->right->right = createNode(6);

printf("Inorder Traversal: ");

inorder(root);

printf("\n");

printf("Preorder Traversal: ");

preorder(root);

printf("\n");

printf("Postorder Traversal: ");

postorder(root);

printf("\n");

return 0;

}

