**//Lab-7 Implementation of Tree data structure**

#include <stdio.h>

#include <stdlib.h>

// Define the structure for a tree node

struct TreeNode

{

int data;

struct TreeNode\* left;

struct TreeNode\* right;

};

// Function to create a new tree node

struct TreeNode\* createNode(int data)

{

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

newNode->data = data;

newNode->left = NULL;

newNode->right = NULL;

return newNode;

}

void main() {

// Create nodes for a simple binary tree

struct TreeNode\* root = createNode(1);

root->left = createNode(2);

root->right = createNode(3);

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

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

// Print the structure of the binary tree

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

printf(" / \\ \n");

printf(" %d %d\n", root->left->data, root->right->data);

printf(" / \\ \n");

printf("%d %d\n", root->left->left->data, root->left->right->data);

getch();

}