Program

```
#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 = NULL;
  newNode->right = NULL;
  return newNode;
}
void inorderTraversal(struct Node* root) {
  if (root == NULL)
     return;
  inorderTraversal(root->left);
  printf("%d ", root->data);
  inorderTraversal(root->right);
}
void preorderTraversal(struct Node* root) {
  if (root == NULL)
     return;
  printf("%d ", root->data);
  preorderTraversal(root->left);
  preorderTraversal(root->right);
```

```
}
void postorderTraversal(struct Node* root) {
  if (root == NULL)
     return;
  postorderTraversal(root->left);
  postorderTraversal(root->right);
  printf("%d ", root->data);
}
int main() {
  // Manually creating a simple binary tree:
  //
         1
        /\
        2 3
  //
      /\
  // 4 5
  struct Node* root = createNode(1);
  root->left = createNode(2);
  root->right = createNode(3);
  root->left->left = createNode(4);
  root->left->right = createNode(5);
  printf("Inorder traversal: ");
  inorderTraversal(root);
  printf("\n");
  printf("Preorder traversal: ");
  preorderTraversal(root);
  printf("\n");
```

```
printf("Postorder traversal: ");
postorderTraversal(root);
printf("\n");
return 0;
```

Output

```
| return; | inorderTraversal(root->left); | printf("%d", root->data); | preorderTraversal(struct Node* root) { | if (root == NULL) | return; | printf("%d", root->data); | preorderTraversal(root->left); | postorderTraversal(root->left); | postorderTraversal(root->left); | postorderTraversal(root->left); | postorderTraversal(root->left); | preorderTraversal(root->left); | preorderTravers
```