```
#include <stdio.h>
#include <stdlib.h>
struct node
{
 int item;
 struct node* left;
 struct node* right;
};
void inorderTraversal(struct node* root)
{
 if (root == NULL) return;
 inorderTraversal(root->left);
printf("%d ->", root->item);
 inorderTraversal(root->right);
}
void preorderTraversal(struct node* root)
{
 if (root == NULL) return;
 printf("%d ->", root->item);
preorderTraversal(root->left);
 preorderTraversal(root->right);
}
void postorderTraversal(struct node* root)
{
 if (root == NULL) return;
 postorderTraversal(root->left);
postorderTraversal(root->right);
 printf("%d ->", root->item);
}
struct node* createNode(value)
{
```

```
struct node* newNode = malloc(sizeof(struct node));
 newNode->item = value;
newNode->left = NULL;
 newNode->right = NULL;
 return newNode;
}
struct node* insertLeft(struct node* root, int value)
{
 root->left = createNode(value);
 return root->left;
}
struct node* insertRight(struct node* root, int value)
{
 root->right = createNode(value);
return root->right;
}
int main()
{
 struct node* root = createNode(1);
insertLeft(root, 12);
insertRight(root, 9);
insertLeft(root->left, 5);
insertRight(root->left, 6);
printf("Inorder traversal \n");
 inorderTraversal(root);
printf("\nPreorder traversal \n");
 preorderTraversal(root);
printf("\nPostorder traversal \n");
 postorderTraversal(root);
```

```
Inorder traversal
5 ->12 ->6 ->1 ->9 ->
Preorder traversal
1 ->12 ->5 ->6 ->9 ->
Postorder traversal
5 ->6 ->12 ->9 ->1 ->
Process exited after 0.02374 seconds with return value 0
Press any key to continue . . .
```