

```
#include <stdio.h>
#include <stdlib.h>
typedef struct Node {
    int data;
    struct Node *left; *right;
} node;
node *create(int data) {
    node *temp;
    temp = (node *) malloc (size of (node));
    temp->data = data;
    temp->left = temp->right = NULL;
    return temp;
}
void inorder (node *root) {
    if (root != NULL) {
        inorder (root->left);
        printf ("%d", root->data);
        preorder (root->left);
        preorder (root->right);
    }
}
void postorder (node *root) {
    if (root != NULL) {
        postorder (root->left);
        postorder (root->right);
        printf ("%d", root->data);
    }
}
```

```
void insert (node *root, node *temp) {
    if (temp->data < root->data) {
        if (root->left != NULL)
            insert (root->left, temp);
        else
            root->left = temp;
    }
    if (temp->data > root->data) {
        if (root->right != NULL)
            insert (root->right, temp);
        else
            root->right = temp;
    }
}

int main(void) {
    node *root = NULL, *temp;
    int choice = 0;
    while (choice != 2)
    {
        temp =
        printf ("1 - Insert \n");
        printf ("2 - Exit \n");
        printf ("Enter your choice: ");
        scanf ("%d", &choice);
        if (choice == 1)
```



```
{  
    int val;  
    printf("Enter value:");  
    scanf("%d", &val);  
    temp = create(val);  
    if (root == NULL)  
        root = temp;  
    else  
        insert(root, temp);  
}  
else if (choice == 2)  
    break;  
else  
    printf("Invalid choice \n");  
}  
printf("Invalid choice \n");  
}  
printf("Inorder traversal:");  
inorder(root);  
  
printf("\n Preorder traversal:");  
preorder(root);  
  
printf("\n Postorder traversal:");  
postorder(root);  
}
```