```
clang-7 -pthread -lm -o main main.c
./main
Node root = NULL;
int choice,item;
                                                                                                                                                                                                                                                                                  Q 🛛
 for(;;){
  printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5.
                                                                                                                                                 1.Insert
2.Preorder
3.Inorder
    .Display\n6.exit\n");
printf("Enter choice : ");
scanf("%d",&choice);
                                                                                                                                                  4.Postorder
                                                                                                                                                 4. Postorder
5. Display
6.exit
Enter choice : 1
Enter item to be inserted : 3
   scanf("%d",%choice);
switch(choice){
    case !:printf("Enter item to be inserted : ");
    scanf("%d",%litem);
    root = insert(root,item);
    break;
    case 2:printf("Preorder traversal: ");
    preorder(root);
    break;
    case 3:printf("Inorder traversal: ");
    inorder(root);
                                                                                                                                                 1.Insert
                                                                                                                                                  2.Preorder
3.Inorder
4.Postorder
                                                                                                                                                  5.Display
        inorder(root);
break;
case 4:printf("Postorder traversal: ");
                                                                                                                                                 Enter choice: 1
Enter item to be inserted: 2
                     postorder(root);
                                                                                                                                                 1.Insert
                                                                                                                                                 2.Preorder
3.Inorder
4.Postorder
5.Display
         break;
case 5:display(root,0);
        break;
case 6:exit(0);
default:printf("Enter proper instructions!!\n");
break;
                                                                                                                                                 6.exit
                                                                                                                                                 Enter choice : 1
Enter item to be inserted : 5
                                                                                                                                                 1.Insert
                                                                                                                                                 2.Preorder
3.Inorder
                                                                                                                                                  4.Postorder
5.Display
                                                                                                                                                                                                                                                                                    Q 🛛
  int choice,item;
                                                                                                                                                  6.exit
Enter choice : 1
Enter item to be inserted : 6
  for(;;){
    printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5
    printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Post
_Display\n6.exit\n");
printf("Enter choice : ");
scanf("%d",&choice);
switch(choice){
    case !:printf("Enter item to be inserted : ");
        scanf("%d",&item);
        root = insert(root,item);
        break;
    case 2:printf("Preorder traversal: ");
        preorder(root);
        break;
    case 3:printf("Inorder traversal: ");
        inorder(root);
        break;
                                                                                                                                                  1.Insert
                                                                                                                                                  2.Preorder
3.Inorder
4.Postorder
5.Display
                                                                                                                                                  6.exit
                                                                                                                                                  6.exit
Enter choice : 1
Enter item to be inserted : 4
                                                                                                                                                  2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
          break;
case 4:printf("Postorder traversal: ");
                                                                                                                                                  6.eXit
Enter choice : 1
Enter item to be inserted : 1
                       postorder(root);
          break;
case 5:display(root,0);
          oreak;
case 6:exit(0);
default:printf("Enter proper instructions!!\n");
    break;
                                                                                                                                                   2.Preorder
3.Inorder
                                                                                                                                                   4.Postorder
5.Display
6.exit
                                                                                                                                                 Enter choice : 5
Node root = NULL;
int choice,item;
                                                                                                                                                6.exit
Enter choice : 5
                                                                                                                                                                                                                                                                                 Q 🛛
```

```
int choice,item;
for(;;){
    printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5
        .Display\n6.exit\n");
    printf("Enter choice : ");
    scanf("%d",%choice);
    switch(choice){
    case !:printf("Enter item to be inserted : ");
        scanf("%d",%item);
        root = insert(root,item);
        hreak;
                                                                                                                                                  1.Insert
2.Preorder
3.Inorder
                                                                                                                                                  3.inorder
4.Postorder
5.Display
6.exit
Enter choice: 2
Preorder traversal: 3 -> 2 -> 1 -> 5 -> 4 -> 6 ->
         break;

case 2:printf("Preorder traversal: ");

preorder(root);
         break;
break;
case 3:printf("Inorder traversal: ");
inorder(root);
                                                                                                                                                   1.Insert
                                                                                                                                                   2.Preorder
         break;
case 4:printf("Postorder traversal: ");
postorder(root);
                                                                                                                                                   3.Inorder
4.Postorder
5.Display
         break;
case 5:display(root,0);
                                                                                                                                                   6.exit
                                                                                                                                                  6.exit
Enter choice : 3
Inorder traversal: 1 -> 2 -> 3 -> 4 -> 5 -> 6 ->
1.Insert
         break;
case 6:exit(0);
default:printf("Enter proper instructions!!\n");
                                                                                                                                                      .Preorder
                                                                                                                                                   3.Inorder
                                                                                                                                                  3.Inorder
4.Postorder
5.Display
6.exit
Enter choice: 4
Postorder traversal: 1 -> 2 -> 4 -> 6 -> 5 -> 3
```