

```
59 Node root = NULL;
60 int choice,item;
61 for(;;){
62     printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5
        .Display\n6.exit\n");
63     printf("Enter choice : ");
64     scanf("%d",&choice);
65     switch(choice){
66         case 1:printf("Enter item to be inserted : ");
67                 scanf("%d",&item);
68                 root = insert(root,item);
69                 break;
70         case 2:printf("Preorder traversal: ");
71                 preorder(root);
72                 break;
73         case 3:printf("Inorder traversal: ");
74                 inorder(root);
75                 break;
76         case 4:printf("Postorder traversal: ");
77                 postorder(root);
78                 break;
79         case 5:display(root,0);
80                 break;
81         case 6:exit(0);
82         default:printf("Enter proper instructions!!\n");
83                 break;
84     }
85 }
86 return 0;
87 }
```

```
> clang-7 -pthread -lm -o main main.c
> ./main
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 3
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 2
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 5
1.Insert
2.Preorder
3.Inorder
```

```
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60 int choice,item;
61 for(;;){
62     printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5
        .Display\n6.exit\n");
63     printf("Enter choice : ");
64     scanf("%d",&choice);
65     switch(choice){
66         case 1:printf("Enter item to be inserted : ");
67                 scanf("%d",&item);
68                 root = insert(root,item);
69                 break;
70         case 2:printf("Preorder traversal: ");
71                 preorder(root);
72                 break;
73         case 3:printf("Inorder traversal: ");
74                 inorder(root);
75                 break;
76         case 4:printf("Postorder traversal: ");
77                 postorder(root);
78                 break;
79         case 5:display(root,0);
80                 break;
81         case 6:exit(0);
82         default:printf("Enter proper instructions!!\n");
83                 break;
84     }
85 }
86 return 0;
87 }
```

```
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 6
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 4
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 1
Enter item to be inserted : 1
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 5
6
5
```

```
59 Node root = NULL;
60 int choice,item;
61 for(;;){
62     printf("\n1.Insert\n2.Preorder\n3.Inorder\n4.Postorder\n5
        .Display\n6.exit\n");
63     printf("Enter choice : ");
64     scanf("%d",&choice);
65     switch(choice){
66         case 1:printf("Enter item to be inserted : ");
67                 scanf("%d",&item);
68                 root = insert(root,item);
69                 break;
70         case 2:printf("Preorder traversal: ");
71                 preorder(root);
72                 break;
73         case 3:printf("Inorder traversal: ");
74                 inorder(root);
75                 break;
76         case 4:printf("Postorder traversal: ");
77                 postorder(root);
78                 break;
79         case 5:display(root,0);
80                 break;
81         case 6:exit(0);
82         default:printf("Enter proper instructions!!\n");
83                 break;
84     }
85 }
86 return 0;
87 }
```

```
6.exit
Enter choice : 5
6
5
4
3
2
1
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 2
Preorder traversal: 3 -> 2 -> 1 -> 5 -> 4 -> 6 ->
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 3
Inorder traversal: 1 -> 2 -> 3 -> 4 -> 5 -> 6 ->
1.Insert
2.Preorder
3.Inorder
4.Postorder
5.Display
6.exit
Enter choice : 4
Postorder traversal: 1 -> 2 -> 4 -> 6 -> 5 -> 3 ->
```