```
#include<stdio.h>
 1
 2
       #include<stdlib.h>
 3
 4
       typedef struct bst
     ∃{
 5
 6
           int data;
           struct bst * left;
 7
           struct bst * right;
 8
      -}node;
 9
10
11
       node *create ()
12
13
14
           node * temp;
           temp=(node*)malloc(sizeof(node *));
15
           printf("enter data");
16
           scanf("%d",&temp->data);
17
           temp->left=temp->right=NULL;
18
19
20
           return temp;
21
       node * insert(node * root, node * temp)
22
     ₽{
23
           if(temp->data<root->data)
24
25
26
               if(root->left!=NULL)
27
28
29
                   insert(root->left,temp);
30
31
                else
                   root->left=temp;
32
33
           if(temp->data>root->data)
34
35
36
               if(root->right!=NULL)
37
38
                   insert(root->right, temp);
39
               else
40
                   root->right=temp;
41
42
43
44
       void preorder(node * root)
45
     □{
46
           if(root!=NULL)
47
```

```
if(root!=NULL)
47
48
               printf("%d\t",root->data);
49
50
               preorder(root->left);
               preorder(root->right);
51
52
53
54
55
       void inorder(node * root)
     ₽{
56
57
           if(root!=NULL)
58
59
               inorder(root->left);
60
                printf("%d\t",root->data);
61
               inorder(root->right);
62
63
64
       void postorder(node * root)
65
     ₽{
66
67
           if(root!=NULL)
68
69
70
               postorder(root->left);
               postorder(root->right);
71
72
                printf("%d\t", root->data);
73
74
     L3
75
76
77
       void main()
     ₽{
78
79
           char ch;
80
           node * root=NULL, *temp;
81
           do
           {
82
83
84
               temp=create();
               if(root==NULL)
85
86
                   root=temp;
87
               else
                   insert(root, temp);
88
89
                   printf( "you want to enter more number");
90
                   getchar();
                   scanf("%c",&ch);
91
           }while(ch=='Y' || ch=='y');
92
               printf("preorder ");
93
```

```
preorder(root);
printf("\ninorder ");
inorder(root);
printf("\npostorder ");
printf("\npostorder ");
postorder(root);
printf("\noot);
printf("\noot);
printf("\noot);
printf("\noot);
```

C:\Users\Admin\Desktop\bst.exe

you want to enter more numbery enter data25 you want to enter more numbery enter data15 you want to enter more numbery enter data10 you want to enter more numbery enter data5 you want to enter more numbery enter data35 you want to enter more numbern oreorder 20 15 10 5 25 35 inorder 5 10 15 20 25 35 postorder 5 10 15 35 25 20 Process returned 3 (0x3) execution time : 33.838 s Press any key to continue.