```
1
   #include<stdio.h>
 2
   #include<stdlib.h>
 3
 4
   struct BinaryNode
5
        struct BinaryNode *left;
 6
7
        int data;
8
        struct BinaryNode *right;
9
   };
10
11
   struct BinaryNode * createBinaryNode(int value)
12
13
        struct BinaryNode *B=(struct BinaryNode *)malloc(sizeof(struct BinaryNode));
        B->left=NULL;
14
15
        B->data=value;
16
        B->right=NULL;
17
        return B;
   };
18
19
   struct BinaryNode* FindMax(struct BinaryNode *);
20
21
   struct BinaryNode *deleteNode(struct BinaryNode *root, int value)
22
23
24
        if(root==NULL)
25
26
            printf("Cant Delete");
27
            return NULL;
28
29
30
        if(value<root->data)
31
            root->left=deleteNode(root->left, value);
32
        else if(value>root->data)
33
            root->right=deleteNode(root->right, value);
34
            else
35
36
                if(root->left&&root->right)
37
                    struct BinaryNode *temp=FindMax(root->left);
38
39
                    root->data=temp->data;
                    root->left=deleteNode(root->left,root->data);
40
41
42
43
                else
44
45
                     if(root->right==NULL)
46
                         root=root->left;
47
                     else if(root->left==NULL)
48
                         root=root->right;
49
                         else
50
                             root=NULL;
51
52
53
        return root;
54
55
56
57
   };
58
59
   struct BinaryNode * FindMax(struct BinaryNode *root)
60
61
        if(root==NULL)
62
            return NULL;
63
        if(root->right==NULL)
64
            return root;
65
66
        return FindMax(root->right);
```

```
67 };
68
69 void inOrderTraversal(struct BinaryNode *root)
70 {
       if(!root)
71
           return NULL;
72
73
       inOrderTraversal(root->left);
74
       printf("%d ",root->data);
75
       inOrderTraversal(root->right);
76 }
77
78 void main()
79 {
       struct BinaryNode *root=createBinaryNode(50);
80
81
       root->left=createBinaryNode(30);
82
       root->right=createBinaryNode(60);
      root->left->left=createBinaryNode(20);
83
84
       root->left->right=createBinaryNode(35);
85
86
87
      inOrderTraversal(root);
88
89
       deleteNode(root,35);
90
91
       printf("\n\nAFTER DELETION\n\n");
92
93
       inOrderTraversal(root);
94
95 }
```