```
#include<iostream>
#include<stdlib.h>
using namespace std;
struct treeNode
  int data;
  treeNode *left;
  treeNode *right;
};
treeNode* FindMin(treeNode *node)
  if(node==NULL)
    return NULL;
  if(node->left)
    return FindMin(node->left);
  else
    return node;
}
treeNode* FindMax(treeNode *node)
  if(node==NULL)
    return NULL;
  if(node->right)
    return(FindMax(node->right));
  else
    return node;
treeNode *Insert(treeNode *node,int data)
  if(node==NULL)
    treeNode *temp;
    temp=new treeNode;
    temp -> data = data;
    temp -> left = temp -> right = NULL;
    return temp;
  if(data >(node->data))
    node->right = Insert(node->right,data);
```

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else if(data < (node->data))
     node->left = Insert(node->left,data);
  }
  return node;
treeNode * Delet(treeNode *node, int data)
  treeNode *temp;
  if(node==NULL)
     cout<<"Element Not Found";
  else if(data < node->data)
     node->left = Delet(node->left, data);
  else if(data > node->data)
     node->right = Delet(node->right, data);
  else
  {
     if(node->right && node->left)
     {
       temp = FindMin(node->right);
       node -> data = temp->data;
       node -> right = Delet(node->right,temp->data);
     }
     else
     {
       temp = node;
       if(node->left == NULL)
          node = node->right;
       else if(node->right == NULL)
          node = node->left;
       free(temp);
     }
  }
  return node;
treeNode * Find(treeNode *node, int data)
  if(node==NULL)
```

```
return NULL;
  }
  if(data > node->data)
     return Find(node->right,data);
  }
  else if(data < node->data)
     return Find(node->left,data);
  }
  else
  {
     return node;
  }
void Inorder(treeNode *node)
  if(node==NULL)
     return;
  Inorder(node->left);
  cout<<node->data<<" ";
  Inorder(node->right);
}
int main()
  treeNode *root = NULL, *temp;
  int ch;
  while(1)
     cout<<"\n1.Insert\n2.Delete\n3.Inorder\n4.Search\n5.Exit\n";
     cout<<"Enter ur choice:";
     cin>>ch;
     switch(ch)
     {
     case 1:
       cout<<"\nEnter element to be insert:";
       cin>>ch;
       root = Insert(root, ch);
       cout<<"\nElements in BST are:";
       Inorder(root);
       break;
     case 2:
```

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cout<<"\nEnter element to be deleted:";
       cin>>ch;
       root = Delet(root,ch);
       cout<<"\nAfter deletion elements in BST are:";
       Inorder(root);
       break;
     case 3:
       cout<<"\nInorder Travesals is:";
       Inorder(root);
       break;
     case 4:
       cout<<"\nEnter element to be searched:";
       cin>>ch;
       temp = Find(root,ch);
       if(temp==NULL)
          cout<<"Element is not foundn";
       else
          cout<<"Element "<<temp->data<<" is Found\n";
       }
       break;
     case 5:
       exit(0);
       break;
     default:
       cout<<"\nEnter correct choice:";
       break;
     }
  }
  return 0;
}
```

```
Please enter the numbers to be insert: 6

Please enter the numbers to be insert: 2 6 9 1 5 8

Binary Search Tree nodes in Inorder Traversal: 1 2 5 6 8

Process returned 0 (0x0) execution time : 15.837 s

Press any key to continue.
```