

`/*search in binary tree*/`

`#include <stdio.h>`

`#include <stdbool.h>`

`#include <stdlib.h>`

`//Represent a node of binary tree`

`struct node{`

`int data;`

`struct node *left;`

`struct node *right;`

`};`

`//Represent the root of binary tree`

`struct node *root = NULL;`

`static bool flag = false;`

`//createNode() will create a new node`

`struct node* createNode(int data){`

`//Create a new node`

`struct node *newNode = (struct node*)malloc(sizeof(struct node));`

`newNode->data = data;`

`newNode->left = NULL;`

`newNode->right = NULL;`

`return newNode;`

`}`

`void searchNode(struct node *temp, int value){`

`//Check whether tree is empty`

`if(root == NULL){`

```

        printf("Tree is empty\n");
    }
    else{

        if(temp->data == value){
            flag = true;
            return;
        }

        if(flag == false && temp->left != NULL){
            searchNode(temp->left, value);
        }

        if(flag == false && temp->right != NULL){
            searchNode(temp->right, value);
        }
    }
}

int main()
{
    //Add nodes to the binary tree
    root = createNode(1);
    root->left = createNode(2);
    root->right = createNode(3);
    root->left->left = createNode(4);
    root->right->left = createNode(5);
    root->right->right = createNode(6);

    searchNode(root, 5);
}

```

```
if(flag)

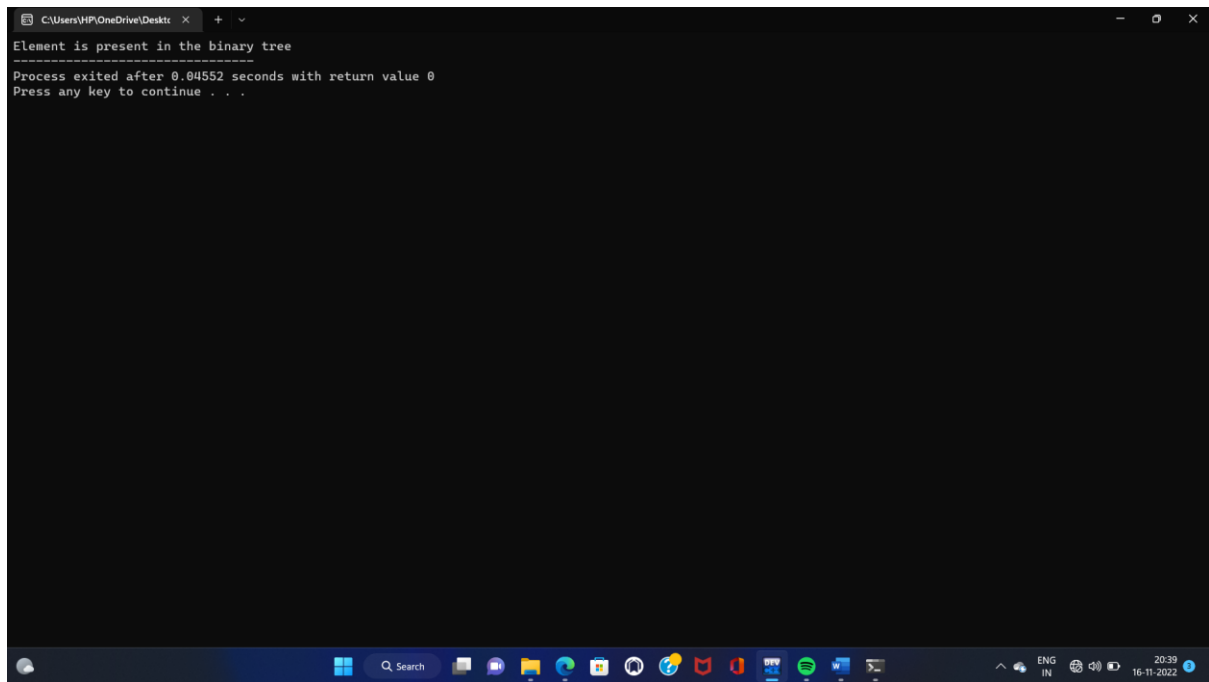
    printf("Element is present in the binary tree");

else

    printf("Element is not present in the binary tree");

return 0;

}
```



A screenshot of a Windows command prompt window. The title bar shows the file path "C:\Users\HP\OneDrive\Desktop". The window contains the following text: "Element is present in the binary tree", followed by a dashed line separator, "Process exited after 0.04552 seconds with return value 0", and "Press any key to continue . . .". The Windows taskbar is visible at the bottom, showing various application icons and the system clock indicating 20:39 on 16-11-2022.