

DATA STRUCTURE AND PROGRAM DESIGN LAB – 06

6. Implement Binary search tree(BST) with following Menu operations.

1. Search an element in BST(Display NULL if not found, If found Display Found)
2. Insert an element in BST
3. Delete leaf element in BST
4. Exit

SAMPLE OUTPUT:

```
Practical-6.c PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB> gcc Practical-6.c
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB> ./a.exe

Binary Search Tree Menu
1. Insert an element
2. Search an element
3. Delete leaf element
4. Exit
Enter your choice: 1
Enter element to insert: 3
Inorder traversal: 3

Binary Search Tree Menu
1. Insert an element
2. Search an element
3. Delete leaf element
4. Exit
Enter your choice: 1
Enter element to insert: 4
Inorder traversal: 3 4

Binary Search Tree Menu
1. Insert an element
2. Search an element
3. Delete leaf element
4. Exit
Enter your choice: 1
Enter element to insert: 6
Inorder traversal: 3 4 6

Binary Search Tree Menu
1. Insert an element
```

```
practical-4.c      73  int main() {
practical-6.c      PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS
practical-6.c      _output.docx
practical-6.c      _output.docx
practical-6.c      _output.docx
practical-6.c      al-1A.c
practical-6.c      al-1B.c
practical-6.c      al-1C.c
practical-6.c      al-2.c
practical-6.c      al-3.c
practical-6.c      al-4.c
practical-6.c      al-5.c
practical-6.c      al-6.c
practical-6.c      Tools found in
practical-6.c      nt 'Practical-
practical-6.c
practical-6.c      Binary Search Tree Menu
practical-6.c      1. Insert an element
practical-6.c      2. Search an element
practical-6.c      3. Delete leaf element
practical-6.c      4. Exit
practical-6.c      Enter your choice: 2
practical-6.c      Enter element to search: 4
practical-6.c      Found
practical-6.c
practical-6.c      Binary Search Tree Menu
practical-6.c      1. Insert an element
practical-6.c      2. Search an element
practical-6.c      3. Delete leaf element
practical-6.c      4. Exit
practical-6.c      Enter your choice: 3
practical-6.c      Enter leaf element to delete: 2
practical-6.c      Inorder traversal: 3 4 6
practical-6.c
practical-6.c      Binary Search Tree Menu
practical-6.c      1. Insert an element
practical-6.c      2. Search an element
practical-6.c      3. Delete leaf element
practical-6.c      4. Exit
practical-6.c      Enter your choice: 3
practical-6.c      Enter leaf element to delete: 6
practical-6.c      Leaf node deleted.
practical-6.c      Inorder traversal: 3 4
practical-6.c
practical-6.c      Binary Search Tree Menu
practical-6.c      1. Insert an element
practical-6.c      2. Search an element
```

```
1. Insert an element
2. Search an element
3. Delete leaf element
4. Exit
Enter your choice: 4
PS C:\Users\Ankush\OneDrive\Desktop\DSPD-LAB>
```