

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:

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

PS C:\Users\prach\OneDrive\Attachments\Desktop\DSPD LAB> gcc Practical-6.c
PS C:\Users\prach\OneDrive\Attachments\Desktop\DSPD LAB> ./a.exe

Choose Operation
1.Search
2.Insert
3.Delete Leaf
4.Display
5.Exit
2
Enter Data For Node: 85

Choose Operation
1.Search
2.Insert
3.Delete Leaf
4.Display
5.Exit
2
Enter Data For Node: 11

Choose Operation
1.Search
2.Insert
3.Delete Leaf
4.Display
5.Exit
2
Enter Data For Node: 90

Choose Operation
1.Search
2.Insert
3.Delete Leaf
```

```
Enter Data For Node: 90
```

```
Choose Operation
```

```
1.Search
```

```
2.Insert
```

```
3.Delete Leaf
```

```
4.Display
```

```
5.Exit
```

```
4
```

```
Inorder Traversal:
```

```
11 85 90
```

```
Preorder Traversal:
```

```
85 11 90
```

```
Postorder Traversal:
```

```
11 90 85
```

```
Choose Operation
```

```
1.Search
```

```
2.Insert
```

```
3.Delete Leaf
```

```
4.Display
```

```
5.Exit
```

```
3
```

```
Enter value to delete: 90
```

```
Choose Operation
```

```
1.Search
```

```
2.Insert
```

```
3.Delete Leaf
```

```
4.Display
```

```
5.Exit
```

```
4
```

```
Inorder Traversal:
```

```
11 85
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Choose Operation

1.Search

2.Insert

3.Delete Leaf

4.Display

5.Exit

4

Inorder Traversal:

11 85

Preorder Traversal:

85 11

Postorder Traversal:

11 85

Choose Operation

1.Search

2.Insert

3.Delete Leaf

4.Display

5.Exit

1

Enter value to search: 11

11 is Found!

Choose Operation

1.Search

2.Insert

3.Delete Leaf

4.Display

5.Exit

5

Exiting..

PS C:\Users\prach\OneDrive\Attachments\Desktop\DSPD LAB> █