

Github link - <https://github.com/LasithaJananjaya/CS2023-Data-Structures-and-Algorithms---Workspace/tree/main/in-classs-lab7>

main.cpp	Run	Output
<pre> 1 #include <iostream> 2 3 using namespace std; 4 5 //-----Nodes 6 7 struct node { 8 int key; 9 struct node * LEFT; 10 struct node * RIGHT; 11 }; 12 //-----Create 13 14 struct node * createNode(int value) { 15 struct node * temp_var = (struct node *) malloc(sizeof 16 (struct node)); 17 temp_var -> key = value; 18 temp_var -> LEFT = temp_var -> RIGHT = NULL; 19 return temp_var; 20 } </pre>	Run	<pre> 1 4 1 5 1 6 2 3 -1 1 1 1 2 1 3 1 4 1 5 1 6 2 3 -1 1 2 4 5 6 </pre>

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<pre> 1 #include <iostream> 2 3 using namespace std; 4 5 //-----Nodes 6 7 struct node { 8 int key; 9 struct node * LEFT; 10 struct node * RIGHT; 11 }; 12 //-----Create 13 14 struct node * createNode(int value) { 15 struct node * temp_var = (struct node *) malloc(sizeof 16 (struct node)); 17 temp_var -> key = value; 18 temp_var -> LEFT = temp_var -> RIGHT = NULL; 19 return temp_var; 20 } </pre>	Run	<pre> 1 4/ 1 24 2 63 2 3 -11 24 1 23 1 63 1 47 1 24 2 63 2 3 -1 23 24 47 </pre>

main.cpp	Run	Output
107 ~ switch (operation) {		2 0
108		1 2
109 case 1:		1 4
110 cin >> operand;		2 3
111 root_value = insertNode(root_value, operand);		-1
112 cin >> operation;		1 1
113 break;		
114		1 2
115 case 2:		
116 cin >> operand;		1 0
117 root_value = deleteNode(root_value, operand);		
118 cin >> operation;		2 0
119 break;		
120		1 2
121 default:		
122 cout << "Invalid!\n";		1 4
123 return 0;		
124 }		2 3
125 }		
126		-1
127 traverseInOrder(root_value);		1 2 4