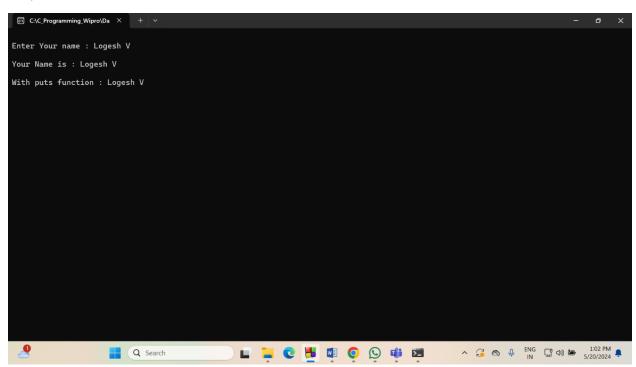
Day 7 C Program

String:

```
string1.c - Code::Blocks 20.03
3
               V Q 4
 *string1.c × *double_linkedlist.c ×
          #include<stdio.h>
#include<conio.h>
          main()
⊒<mark>{</mark>
             char name[50];
printf("\nEnter Your name : ");
//scani("%s", name);
fgets(name, sizeof(name), stdin);
printf("\nYour Name is : %s", name);
printf("\nYour Name is : %s", name);
puts(name);
     12
13
14
15
16
🛂 🕜 Code:Blocks 🗴 👊 Search results 🗴 📝 Cccc 🗴 🔅 Build log 🗴 📌 Build log x 🕴 Build messages x 📝 CppCheck/Vera++ x 📝 CppCheck/Vera++ messages x 📝 Cscope x 🔅 Debugger x 📝 DoxyBlocks x 📭 Fortran 🖪
           L... Message === Build file: "no target" in "no project" (compiler: unkn... === Build finished: 0 error(s), 0 warning(s) (0 minute(s), ...
                                                                                                                        Insert Modified Read/Write default
C:\C_Programming_Wipro\Day_7\string1.c
                                                                    Windows (CR+LF) WINDOWS-1252 Line 5, Col 2, Pos 49
                                                                  Q Search
```

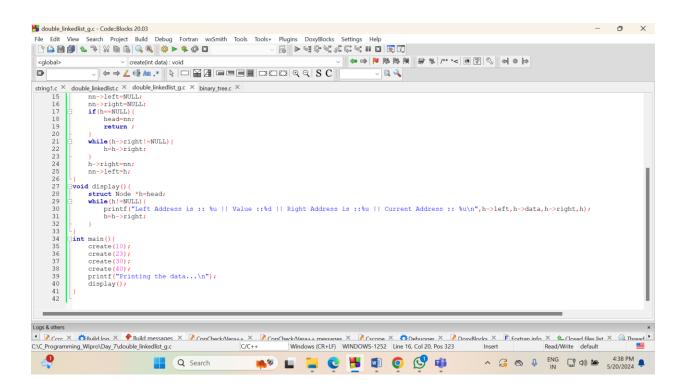
Output:



Doubly linkedlist:

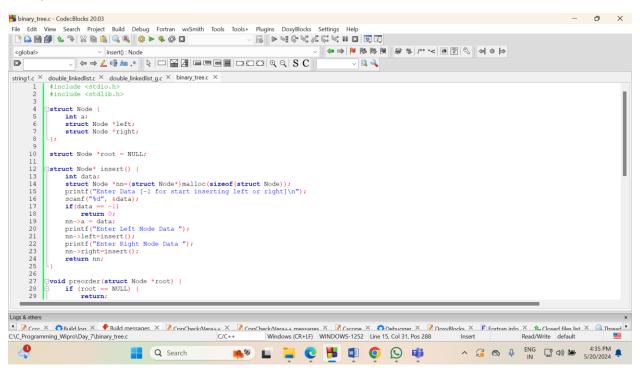
```
double_linkedlist_g.c - Code::Blocks 20.03
 File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings
 v create(int data) : void
                           B
                                                                                                                                                                                                                                                                                        V 🚨 🔌
                               \mathsf{double\_linkedlist.c} \ \times \ \mathsf{double\_linkedlist\_g.c} \ \times \ \mathsf{binary\_tree.c} \ \times \\
   string1.c
                               #include <stdio.h>
#include <stdlib.h>
                              struct Node {
   int data;
   struct Node *left;
   struct Node *right;
                              struct Node *head;

poid create(int data) {
    struct Node *n=(struct Node *)malloc(sizeof(struct Node));
    struct Node *h=head;
    nn->data=data;
    nn->left=NULL;
}
                                           nn->right=NULL;
if(h==NULL) {
head=nn;
                16
17
18
19
20
21
22
23
                                            while(h->right!=NULL){
   h=h->right;
                                             h->right=nn;
                24
                25
               26
27
28
29
                                 void display() {
    struct Node *h=head;
    while(h!=NULL) {
** | Conce | Mindows (CR-LE) | Windows (CR-LE) |
C:\C Programming Wipro\Day 7\double linkedlist g.c
                                                                                                                                                                                                                                                                                                                                                                             🤲 🗖 🍃 🥲 👭 🛍 🧑 🔇 📫
                                                                                                  Q Search
```



Output:

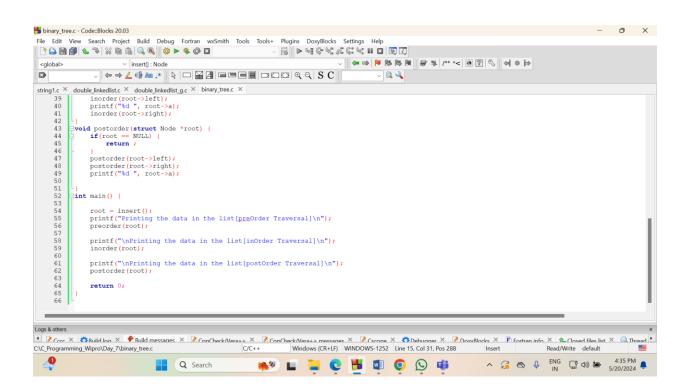
Binary Tree:



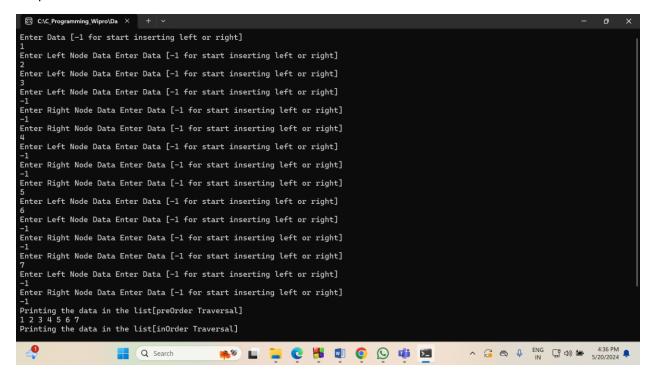
```
binary_tree.c - Code::Blocks 20.03
   File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
         v insert() : Node
                                                                \begin{array}{c|c} & & \text{inserty: Node} \\ \hline \\ & \Leftrightarrow & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & & & \\ \hline \end{array} \ \begin{array}{c|c} & & \\ \hline \end{array} \ \begin{array}{c|c
       3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     V 🚨 🔌
                                                                          double_linkedlist.c \times double_linkedlist_g.c \times binary_tree.c \times
       string1.c ×
                                     27 | void preorder(struct Node *root) {
28 | if (root == NULL) {
29 | return;
                                                                                                    printf("%d ", root->a);
preorder(root->left);
preorder(root->right);
                                       34
                                                                  void inorder(struct Node *root) {
   if(root == NULL) {
                                       36
37
38
39
40
41
                                                                                                                                   return ;
                                                                                                    inorder(root->left);
printf("%d ", root->a);
inorder(root->right);
                                       42
                                                                              void postorder (struct Node *root) {
                                                                                                           if (root == NULL)
                                                                                                                                 return ;
                                                                                                        postorder(root->left);
postorder(root->right);
printf("%d ", root->a);
                                       49
                                       50
                                     51
                                       52
                                                                  ⊟int main() {
                                                                                                           root = insert();
printf("Printing the data in the list[preOrder Traversal]\n")
 * Paulid Inn X * Build Inn X * Closed files list X * Thread * C\C_Programming_Wipro\Day_7\binany_tree.*  

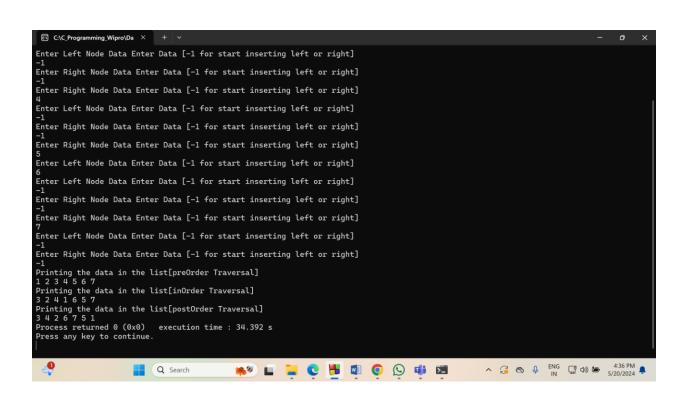
**Conno X * Build Inn X * Build Inn X * Closed files list X * Thread * C\C_Programming_Wipro\Day_7\binany_tree.*  

**Innot Innot X * Build Inn X *
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q Search
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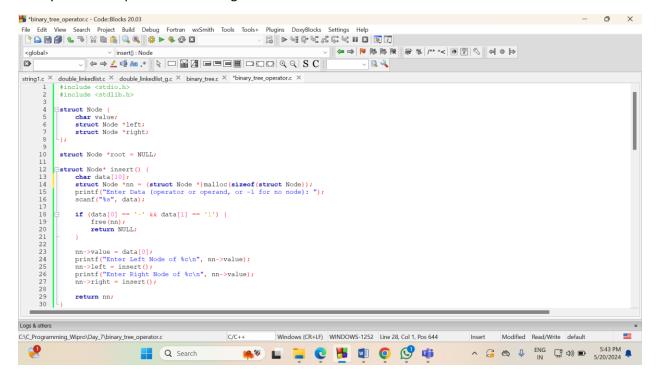


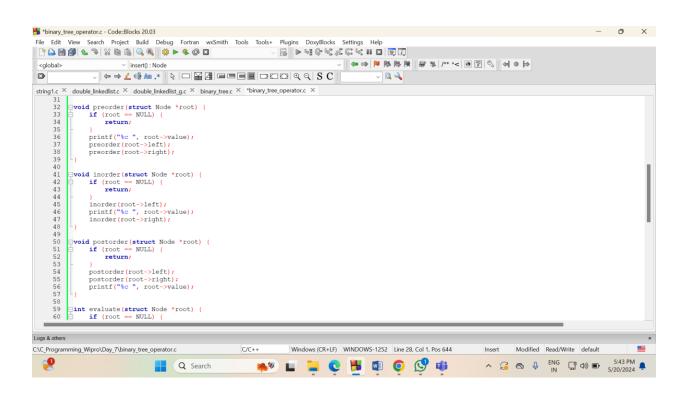
Output:

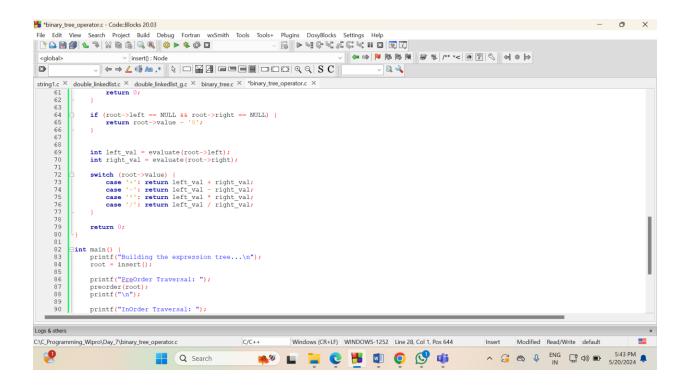


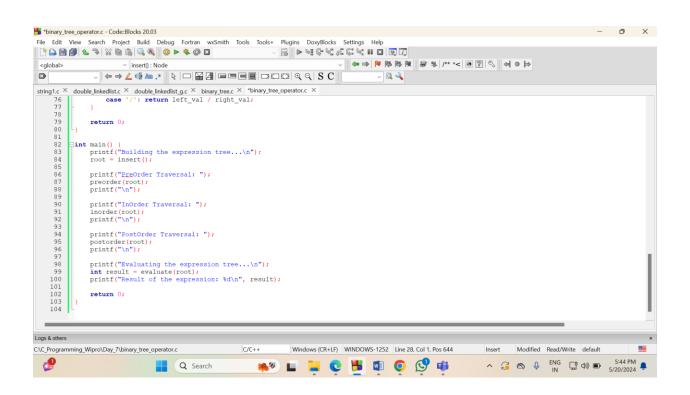


Binary tree with operators and string:









Output:

```
Building the expression tree...
Enter Data (operator or operand, or -1 for no node): A
Enter Data (operator or operand, or -1 for no node): +
Enter Data (operator or operand, or -1 for no node): +
Enter Data (operator or operand, or -1 for no node): +
Enter Let Node of A
Enter Let Node of +
Enter Let Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of +
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of +
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of C
Enter Let Node of C
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of A
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of A
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of A
Enter Data (operator or operand, or -1 for no node): -1
Enter Loda (operator or operand, or -1 for no node): -1
Enter Loda (operator or operand, or -1 for no node): -1
Enter Loda (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Right Node of B
Enter Data (operator or operand, or -1 for no node): -1
Enter Data (operator or op
```