

IQRA NATIONAL UNIVERSITY
PESHAWAR

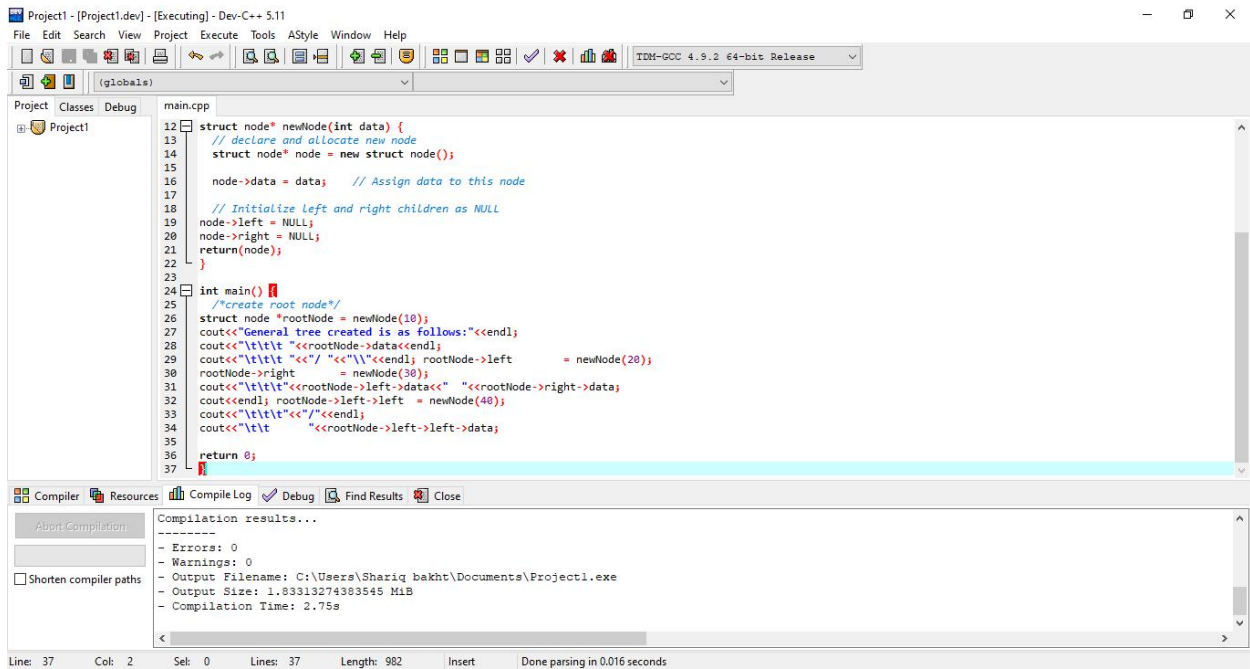
SUBMITTED BY SHARIQ

SUBMITTED SIR SHERAZ

SUBJECT COMPILER CONSTRUCTION

DEPARTMENT BS(CS)

Here is tree Using Dev C++



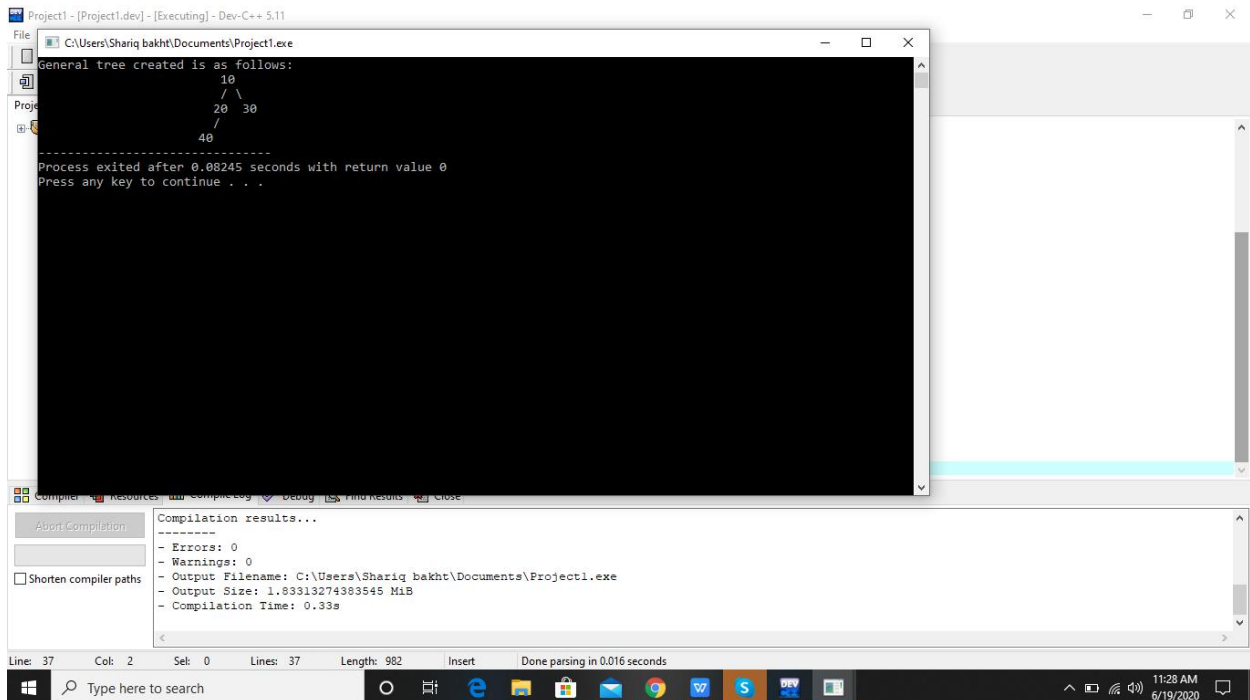
```
12 struct node* newNode(int data) {
13     // declares and allocate new node
14     struct node* node = new struct node();
15
16     node->data = data;    // Assign data to this node
17
18     // Initialize left and right children as NULL
19     node->left = NULL;
20     node->right = NULL;
21     return(node);
22 }
23
24 int main() {
25     /*create root node*/
26     struct node *rootNode = newNode(10);
27     cout<<"General tree created is as follows:"<<endl;
28     cout<<"\t\t\t" <<rootNode->data<<endl;
29     cout<<"\t\t\t" <<"/" <<"/" <<endl; rootNode->left      = newNode(20);
30     rootNode->right      = newNode(30);
31     cout<<"\t\t\t" <<rootNode->left->data<< " " <<rootNode->right->data;
32     cout<<endl; rootNode->left->left  = newNode(40);
33     cout<<"\t\t\t" <<"/" <<endl;
34     cout<<"\t\t\t" <<rootNode->left->left->data;
35
36     return 0;
37 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Shariq bakht\Documents\Project1.exe
- Output Size: 1,83313274383545 MiB
- Compilation Time: 2.75s

Line: 37 Col: 2 Sel: 0 Lines: 37 Length: 982 Insert Done parsing in 0.016 seconds

Here is the Output



```
General tree created is as follows:
      10
     /  \
    20  30
   /
  40

Process exited after 0.08245 seconds with return value 0
Press any key to continue . . .
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Shariq bakht\Documents\Project1.exe
- Output Size: 1,83313274383545 MiB
- Compilation Time: 0.33s

Line: 37 Col: 2 Sel: 0 Lines: 37 Length: 982 Insert Done parsing in 0.016 seconds