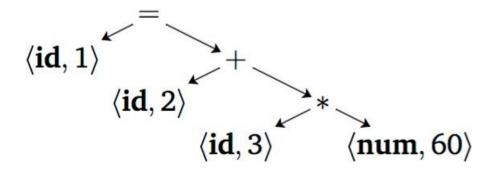
Compiler Construction

Tree Construction (Syntax Checking)

```
position = initial + rate * 60
```

1	position
2	initial
3	rate



Testing by giving a text file with sample code.

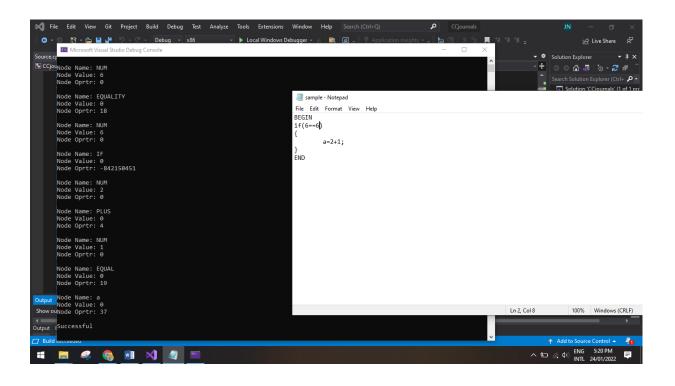
```
Int main ()
{
    Int a, b, sum;
    Sum=0;
    Sum=3+4-5;
    A=2;
    B=3;
    Sum=a+b;
}
```

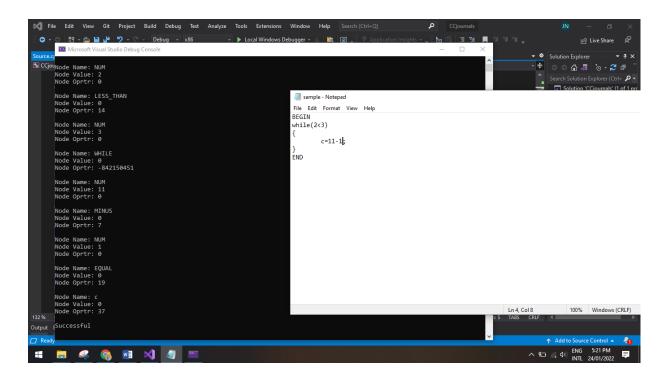
Solution:

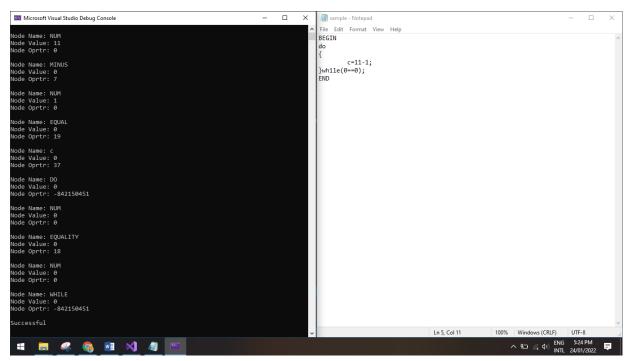
Screenshots:

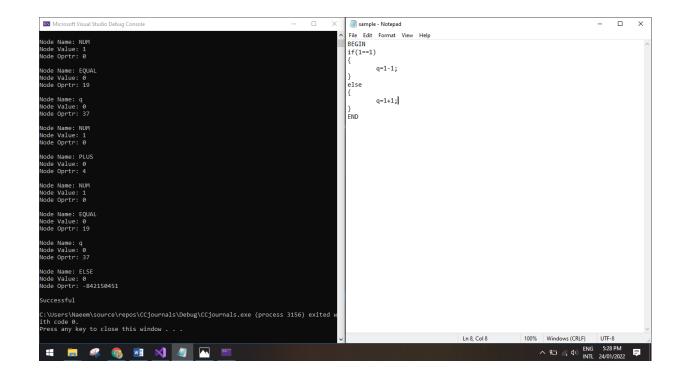
Valid inputs: (Tree printed in inorder parsing)

```
📢 File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q)
 🕒 - 🗇 🃸 - 🚈 💾 🛂 🤚 - 🖯 - Debug - 🗆 x86
                                                       🔻 🕨 Local Windows Debugger 🔻 🕖 🚉 🔯 🚅 💡 Application Insights 🕶 🚆 🛅 🖫
Source.cpp
                                                                                                                                                       Search Solution Explorer (Ctrl+ 🎜 -
                         tree->name = x.name;
                         x = getToken();
if (x.token == EQUAL)
                                                                          sample - Notepad
                                                                          File Edit Format View Help
                                                                          BEGIN
                                                                          a=3+4;
END
                                                                                         Microsoft Visual Studio Debug Consol
                              t1->stmtk = asmt_kind;
                              t1->opr = x.token;
t1->name = x.name;
                              if (t1 = log0r())
                                   tree->leftChild->leftChild =
                                   x = getToken();
if (x.token == SEMICOLON)
                                                                                           ode Name: EQUAL
ode Value: 0
ode Ortr: 19
                                                                                          uccessful
Show output from: Build
                                                                                          :\Users\Naeem\source\repos\CCjournals\Debug\CCjournals.exe (process 9424) exited with ress any key to close this window . . .
Output Error List
                                                                                                                                                    📜 🥝 🧿 🔟 🐠 🔘 🖺
```









Invalid inputs:

```
Pro Microsoft Visual Studio Debug Console

Unsuccessful

C:\Users\Naeem\source\repos\CCjournals\Debug\CCjournals.ex

Press any key to close this window . . .

q=1-1;
}
else
{
q=1+1;
}
END
```

