```
Akash Asahraf Uddin Ahmed 21-45114-2
#include <iostream>
#include <string> using
namespace std;
string labelRelationalOperator(const string&op){
  if (op == "<"){
    return "Less than";
  }
  else if (op == ">"){
    return "Greater than";
  else if (op == "<="){
    return "Less than or equal to";
  }
  else if (op == ">="){
    return "Greater than or equal to";
  }
  else if (op == "=="){
```

```
return "Equal to";
  }
  else if (op == "!="){
    return "Not equal to";
  }
  else{
    return "unknown operator";
  }
}
int main(){
  string expression;
    cout<<"Enter an expression: ";</pre>
     cin>>expression;
  size_t ps = 0;
```

```
while ((ps = expression.find_first_of("<>=!",ps))!=string::npos)
    string opString=expression.substr(ps,2);
string label=labelRelationalOperator(opString);
    if (label != "unknown operator") {
      cout<<opString<<" "<<label;</pre>
   }
else {
      opString = expression.substr(ps,1);
label=labelRelationalOperator(opString);
      if (label!="unknown operator"){
        cout<<opString<<" "<<label;</pre>
       }
   }
ps++;
  }
  cout<<endl;
```

```
return 0;
```

}

```
🖁 cdlab3.cpp - Code:Blocks 17.12
File Edit View Search Project Build Debug Fortran wuSmith Tools Tools- Plugins DevyBlocks Settings Help

| Company |
                                                                                                                                     4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
                                                                                                                                                                 string labelRelationalOperator(const string&op)(
                                                                                                                                                                                                      return "Less than";
                                                                                                                                                                                         else if (op == ">") (
                                                                                                                                                                                                      return "Greater than";
                                                                                                                                                                                       else if (op == "<=") {
                                                                                                                                                                                                                                                                                                                                                                                                                                   rocess returned 0 (0x0) \, execution time : 30.346 s \, ress any key to continue.
                                                                                                                                                                                                      return "Less than or equal to";
                                                                                                                                                                                                       return "Greater than or equal to";
                                                                                                                                       22
23
24
25
26
27
28
                                                                                                                                                                                       else if (op == "=="){
                                                                                                                                                                                                       return "Equal to";
                                                                                                                                                                                   else if (op == "!=") (
                                                                                                                                       29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
                                                                                                                                                                                                    return "Not equal to";
                                                                                                                                                                                                       return "unknown operator";
                                                                                                                                                                                   string expression;
                                                                                                                                                                                                       cout<<"Enter an expression: ";
                                                                                                                    Logs & others
                                                                                                                             ⚠ Code::Blocks X | Q, Search results X | M, Cocc X | Q Build big X | P Build messages X | M Copp Check/reta++ x | M Copp Chec
                                                                                                                          File
                                                                                                                                                                                            Line Message
                                                                                                                                                                                                                          === Build file: "no target" in "no project" (compiler: unknown) ===
=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Line 21, Col 43, Pos 390
 D:\UNI\cdlab3.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Windows (CR+LF) default
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  450 PM

450 PM

11/5/2023
   ## P Type here to search
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            🔯 🎉 🚱 🗉
```