



The screenshot shows a C++ IDE with the file `Sem05_listado.cpp` open. The code is a recursive function `listar_directorio` that lists files and directories. It uses `WIN32_FIND_DATA` and `FindFirstFile` to traverse the file system. The `main` function prompts the user for a directory path and calls `listar_directorio`.

```
1 //programa que lista carpetas y archivos de forma recursiva
2 #include <iostream>
3 #include <windows.h>
4
5 using namespace std;
6
7 void listar_directorio(char* dir){
8     WIN32_FIND_DATA wfd; //estructura de datos donde almacena información del archivo o carpeta
9     HANDLE hFind; //manejador al archivo o carpeta
10    char szCurrentPath[MAX_PATH];
11    char szNextPath[MAX_PATH];
12
13    strcpy(szCurrentPath, dir);
14    strcat(szCurrentPath, "\\*.*");
15
16    hFind = FindFirstFile(szCurrentPath, &wfd);
17
18    if(hFind == INVALID_HANDLE_VALUE)
19        cout<<"Ruta incorrecta"<<endl;
20    else{
21        do{
22            if(!strcmp(wfd.cFileName, ".") || !strcmp(wfd.cFileName, "..")) // no imprimir el directorio actual o superior
23                continue;
24            cout<<wfd.cFileName<<endl;
25
26            if(wfd.dwFileAttributes & FILE_ATTRIBUTE_DIRECTORY){
27                wsprintf(szNextPath, "%s\\%s", dir, wfd.cFileName);
28                listar_directorio(szNextPath);
29            }
30        }while(FindNextFile(hFind, &wfd) != 0);
31    }
32 }
33
34 int main(){
35     char dir[MAX_PATH];
36
37     cout<<"ingrese la ruta a explorar: ";
38     cin.getline(dir, MAX_PATH);
39     cout<<endl;
40
41     listar_directorio(dir); //C:
42 }
43
44 }
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, a project explorer showing `Sem05_factorial.cpp` and `Sem05_listado.cpp`, a compiler window (TDM-GCC 4.9.2 64-bit Release), and a status bar at the bottom showing line 18, column 5, and a search bar.