

**ESCUELA INDUSTRIAL SUPERIOR**  
*ANEXA A LA FACULTAD DE INGENIERÍA QUÍMICA*  
**UNIVERSIDAD NACIONAL DEL LITORAL**



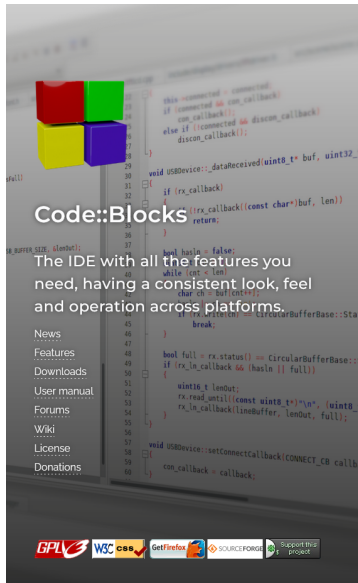
**Informática III**  
C++

***Code::Blocks***

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## Code::Blocks

<https://www.codeblocks.org/>



[Code::Blocks](#)

### Code::Blocks

The free C/C++ and Fortran IDE.

Code::Blocks is a free C/C++ and Fortran IDE built to meet the most demanding needs of its users. It is designed to be very extensible and fully configurable.

Built around a plugin framework, Code::Blocks can be extended with plugins. Any kind of functionality can be added by installing/coding a plugin. For instance, event compiling and debugging functionality is provided by plugins!

If you're new here, you can read the [user manual](#) or visit the [Wiki](#) for documentation. And don't forget to visit and join our [forums](#) to find help or general discussion about Code::Blocks.

We hope you enjoy using Code::Blocks!

The Code::Blocks Team

### Latest news

#### Migration successful

We are very happy to announce that the process of migrating to the new infrastructure has completed successfully!

[Read more](#)

#### Forums and Wiki migration

During the next couple of days, the forums and wiki will be migrated over to the new infrastructure.

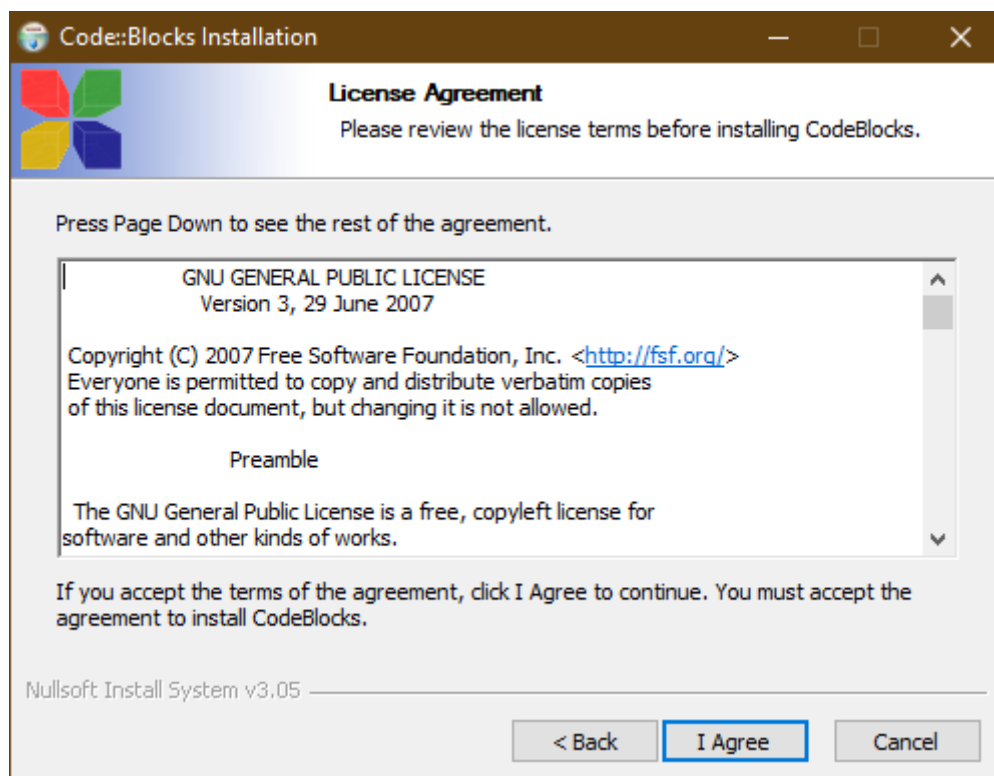
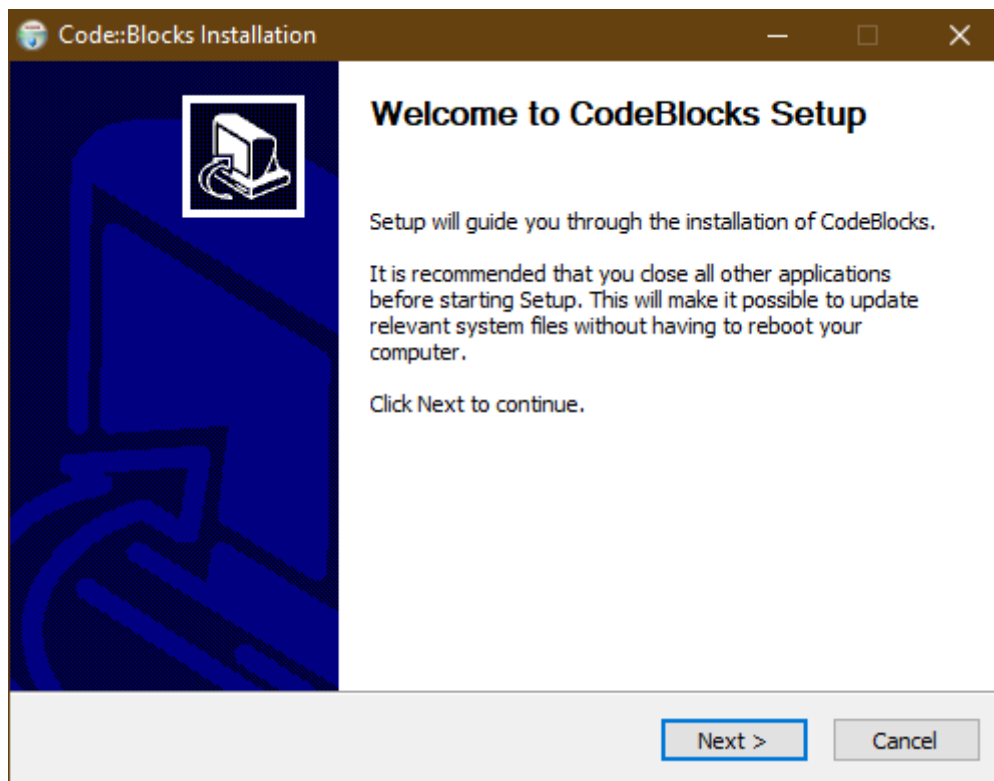
[Read more](#)

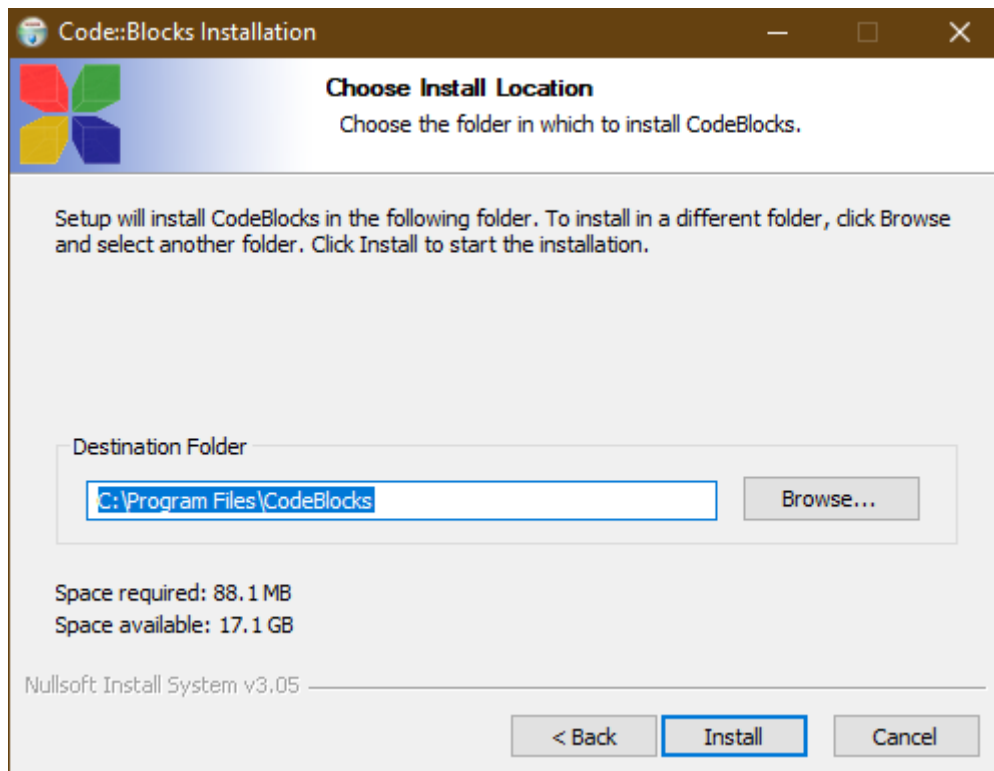
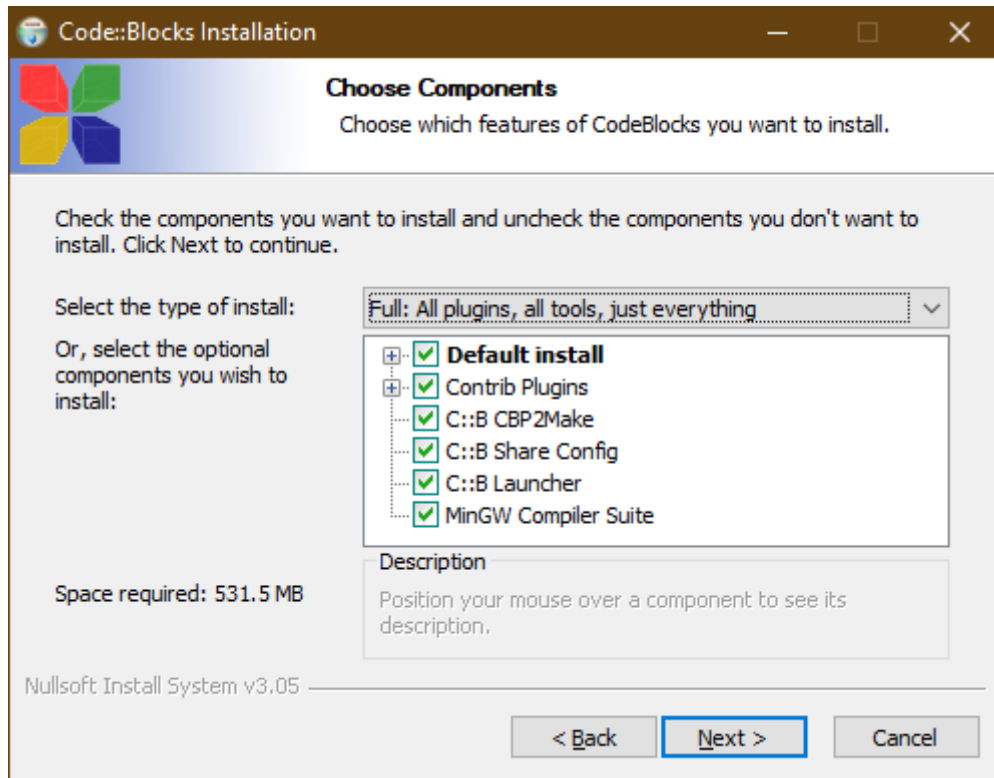
CodeBlocks puede instalarse en varios sistemas operativos como por ejemplo en Windows y Huayra.

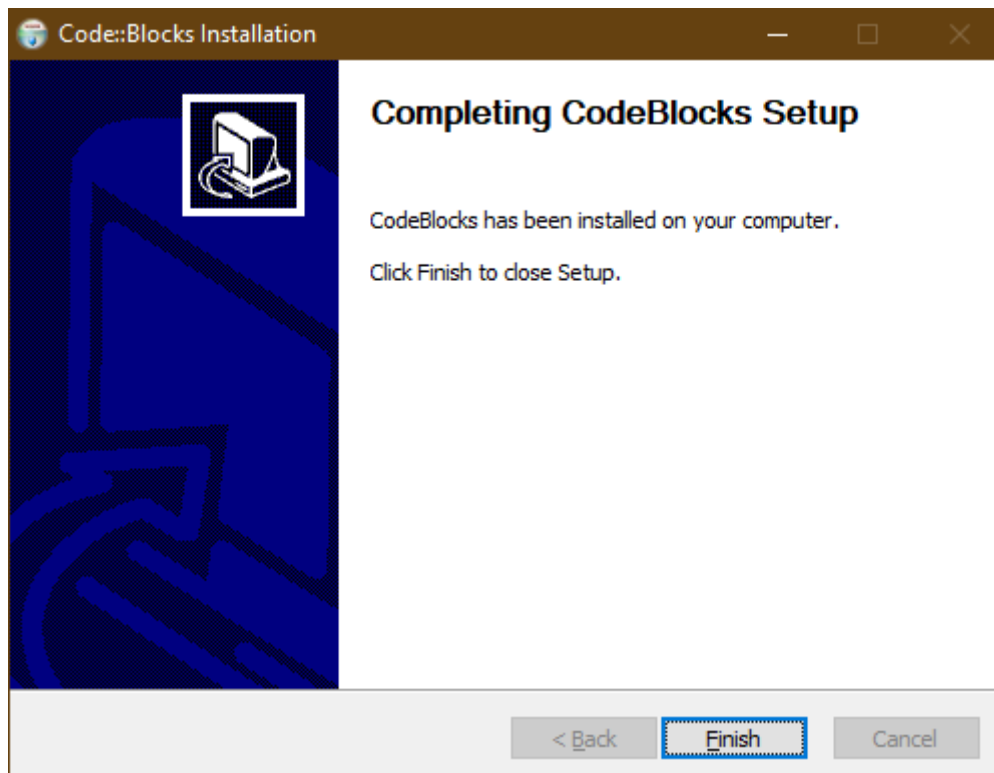
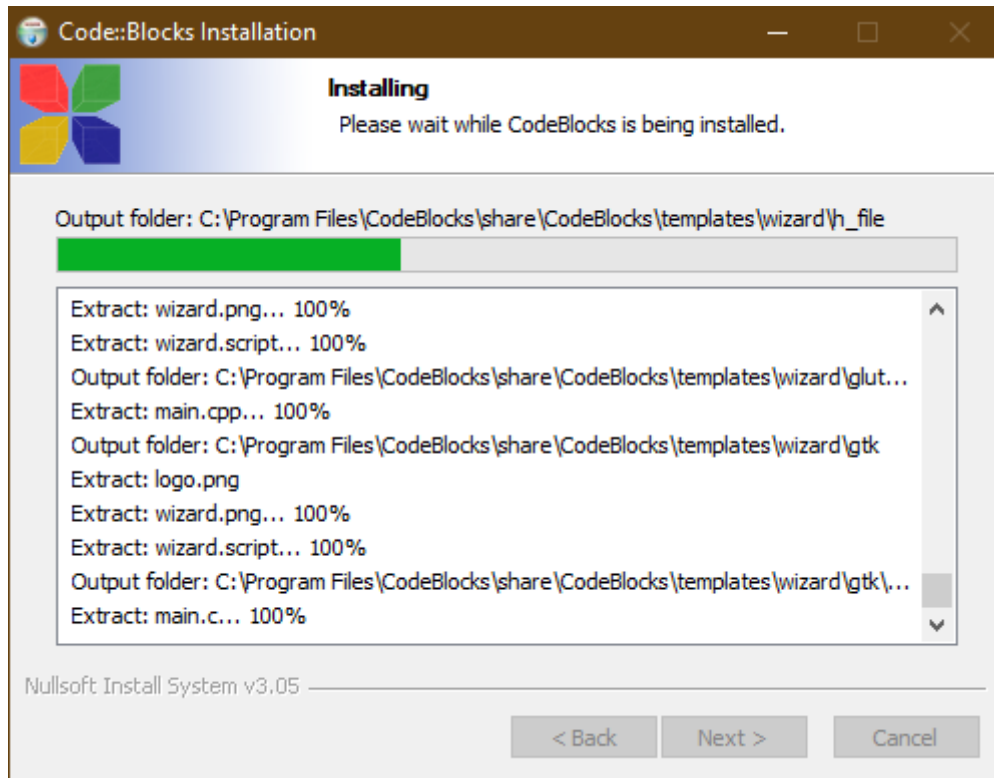
## Windows

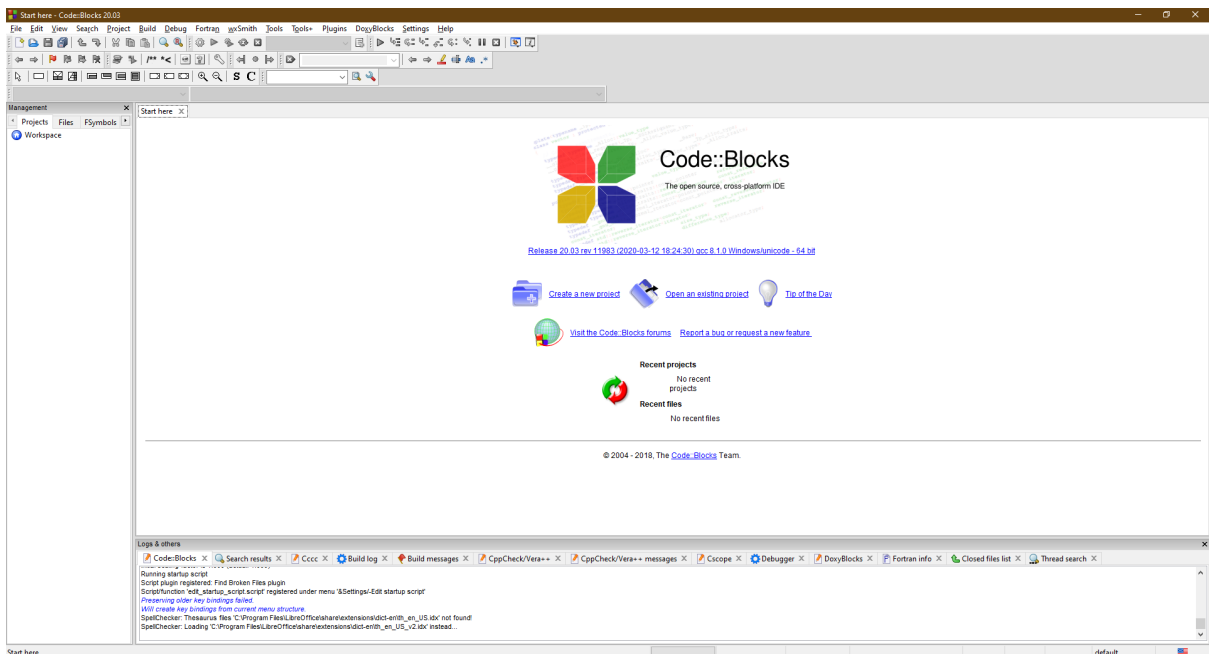
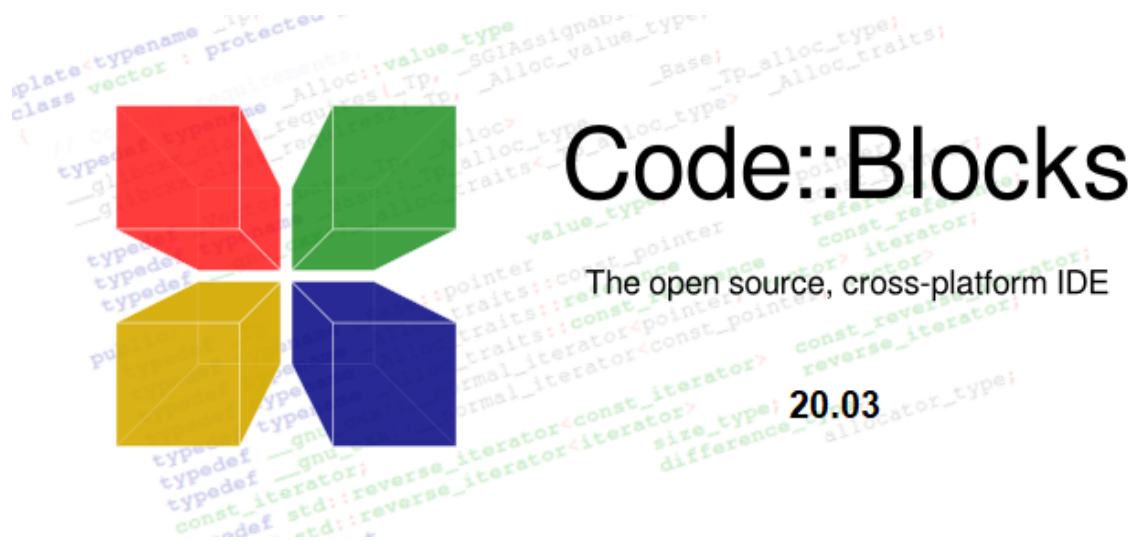
Descargar

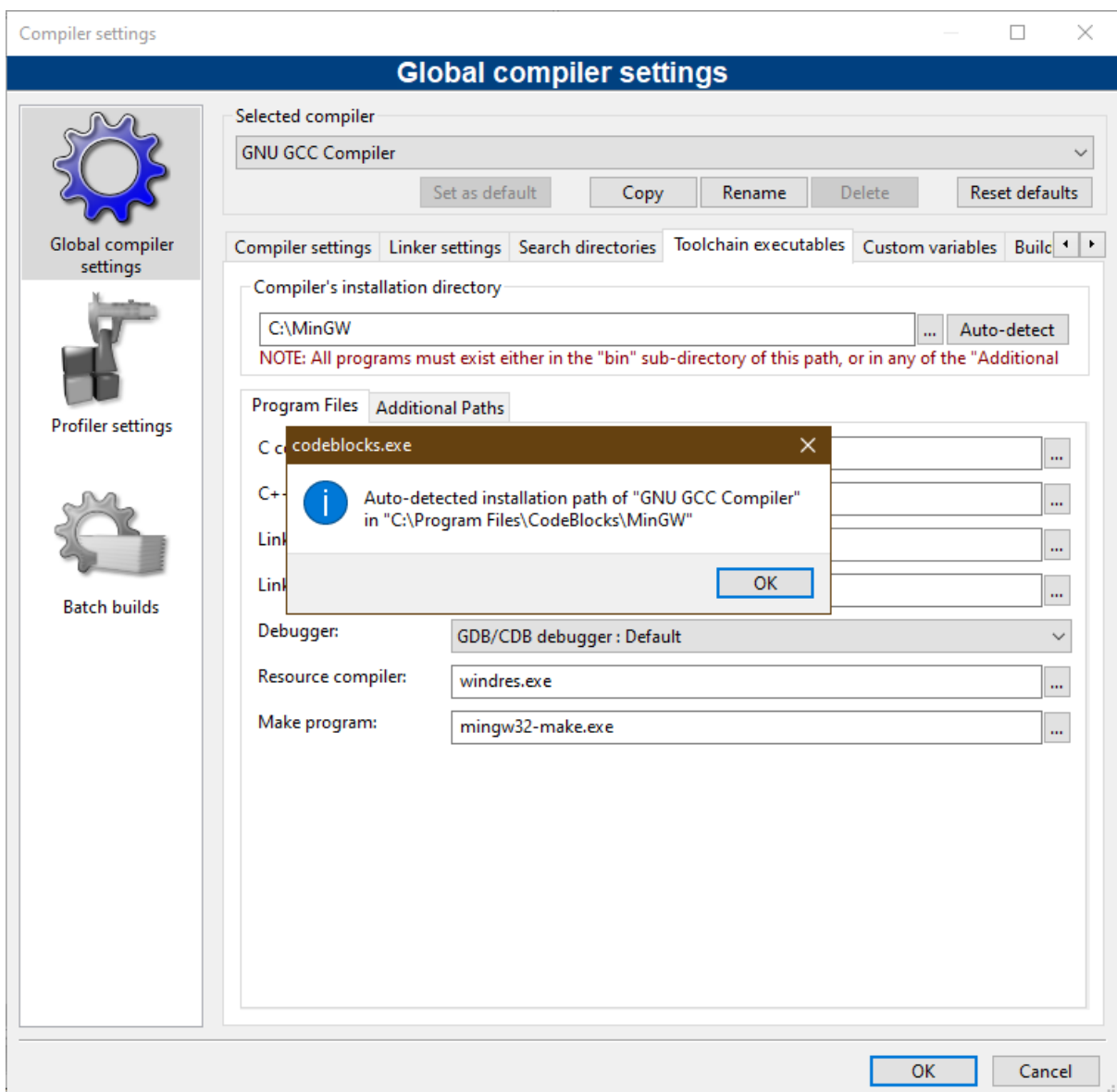
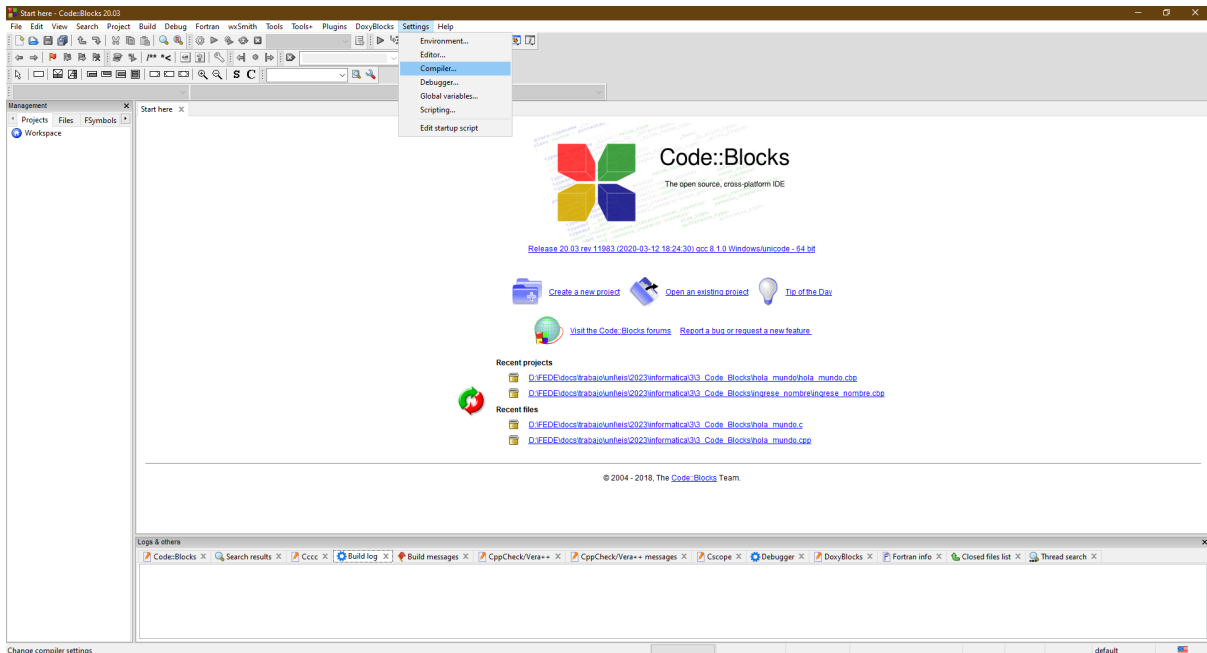
<https://sourceforge.net/projects/codeblocks/files/Binaries/20.03/Windows/codeblocks-20.03mingw-setup.exe> e instalar











## Huayra

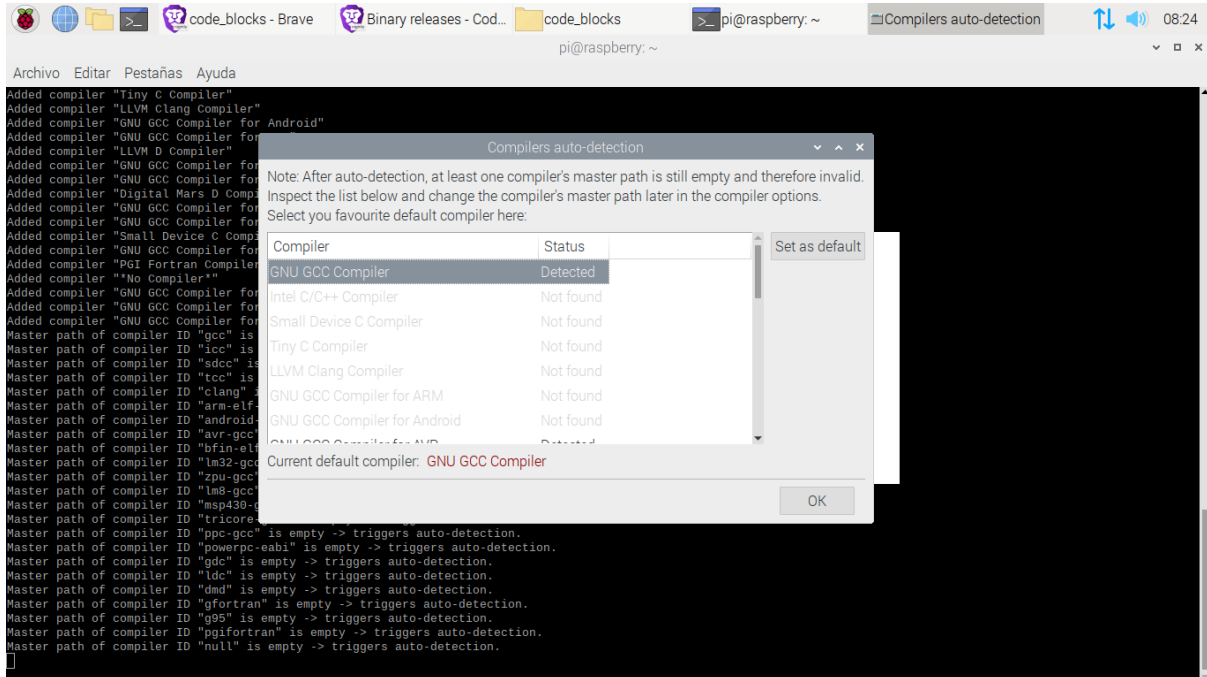
```

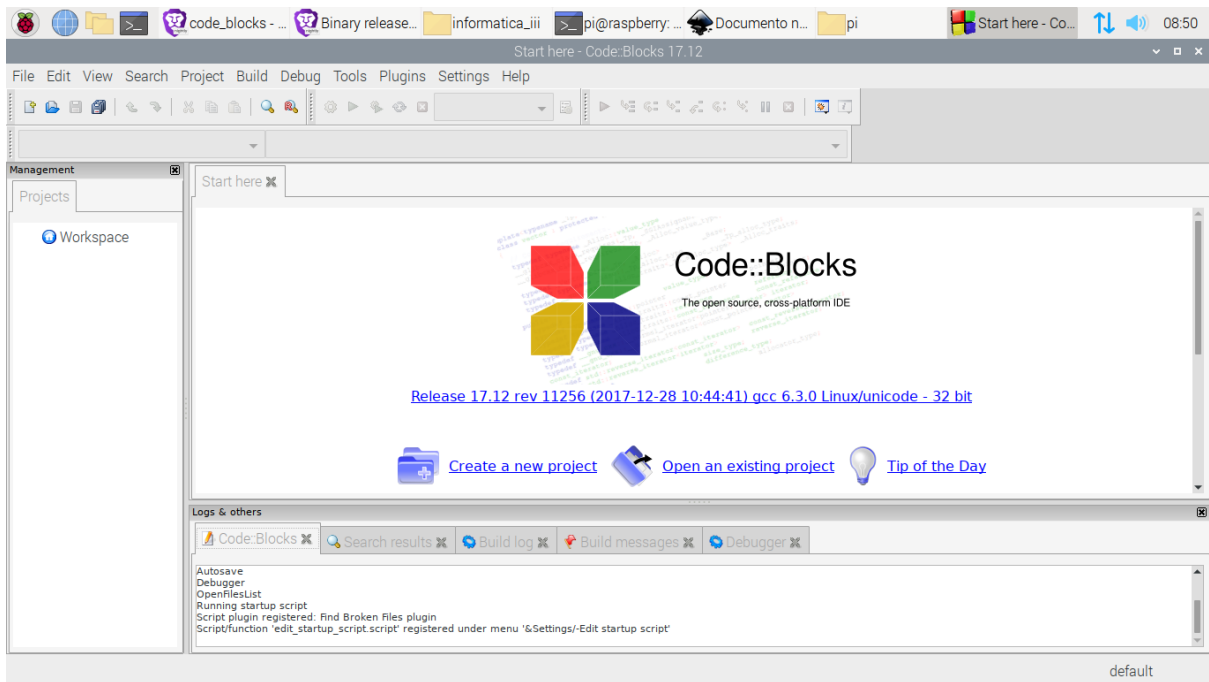
Archivo  Editar  Pestañas  Ayuda
pi@raspberrypi:~$ sudo apt-get install codeblocks
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Los paquetes indicados a continuación se instalaron de forma automática y ya no son necesarios.
  gconf-service gconf2-common libappindicator3-1:amd64 libdbusmenu-glib4:amd64
  libdbusmenu-gtk3-4:amd64 libgconf-2-4 libindicator3-7:amd64 libmicrodnso
  libx11-xcb1:amd64 libxss1:amd64 libxtst6:amd64 python-colorzero
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes adicionales:
  codeblocks-common libcodeblocks0 libutempter0 libwxbase3.0-0v5
  libwxgtk3.0-0v5 xbitmaps xterm
Paquetes sugeridos:
  libwxgtk2.8-dev | libwxgtk3.0-dev wx-common codeblocks-contrib
  xfonts-cyrillic
Se instalarán los siguientes paquetes NUEVOS:
  codeblocks codeblocks-common libcodeblocks0 libutempter0 libwxbase3.0-0v5
  libwxgtk3.0-0v5 xbitmaps xterm
0 actualizados, 8 nuevos se instalarán, 0 para eliminar y 37 no actualizados.
Se necesita descargar 15,4 MB de archivos.
Se utilizarán 46,1 MB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] S
Des:1 http://ftp.debian.org/debian buster/main i386 libwxbase3.0-0v5 i386 3.0.4+dfsg-8 [1.144 kB]
Des:2 http://archive.raspberrypi.org/debian buster/main i386 libcodeblocks0 i386 17.12.rpi1 [2.608 kB]
Des:3 http://ftp.debian.org/debian buster/main i386 libwxgtk3.0-0v5 i386 3.0.4+dfsg-8 [4.694 kB]
Des:4 http://ftp.debian.org/debian buster/main i386 xbitmaps all 1.1.1-2 [32,1 kB]
Des:5 http://archive.raspberrypi.org/debian buster/main i386 codeblocks-common all 17.12.rpi1 [3.541 kB]
Des:6 http://archive.raspberrypi.org/debian buster/main i386 codeblocks i386 17.12.rpi1 [2.578 kB]
Des:7 http://ftp.debian.org/debian buster/main i386 libutempter0 i386 1.1.6-3 [8.106 B]
Des:8 http://ftp.debian.org/debian buster/main i386 xterm i386 344-1+deb10u2 [780 kB]
Descargados 15,4 MB en 5s (3.153 kB/s)
Seleccionando el paquete libwxbase3.0-0v5:i386 previamente no seleccionado.
(Leyendo la base de datos ... 178597 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../0-libwxbase3.0-0v5_3.0.4+dfsg-8_i386.deb ...
Desempaquetando libwxbase3.0-0v5:i386 (3.0.4+dfsg-8) ...
Seleccionando el paquete libwxgtk3.0-0v5:i386 previamente no seleccionado.
Preparando para desempaquetar .../1-libwxgtk3.0-0v5_3.0.4+dfsg-8_i386.deb ...
Desempaquetando libwxgtk3.0-0v5:i386 (3.0.4+dfsg-8) ...
Seleccionando el paquete libcodeblocks0 previamente no seleccionado.
Preparando para desempaquetar .../2-libcodeblocks0_17.12.rpi1_i386.deb ...
Desempaquetando libcodeblocks0 (17.12.rpi1) ...
Seleccionando el paquete codeblocks-common previamente no seleccionado.

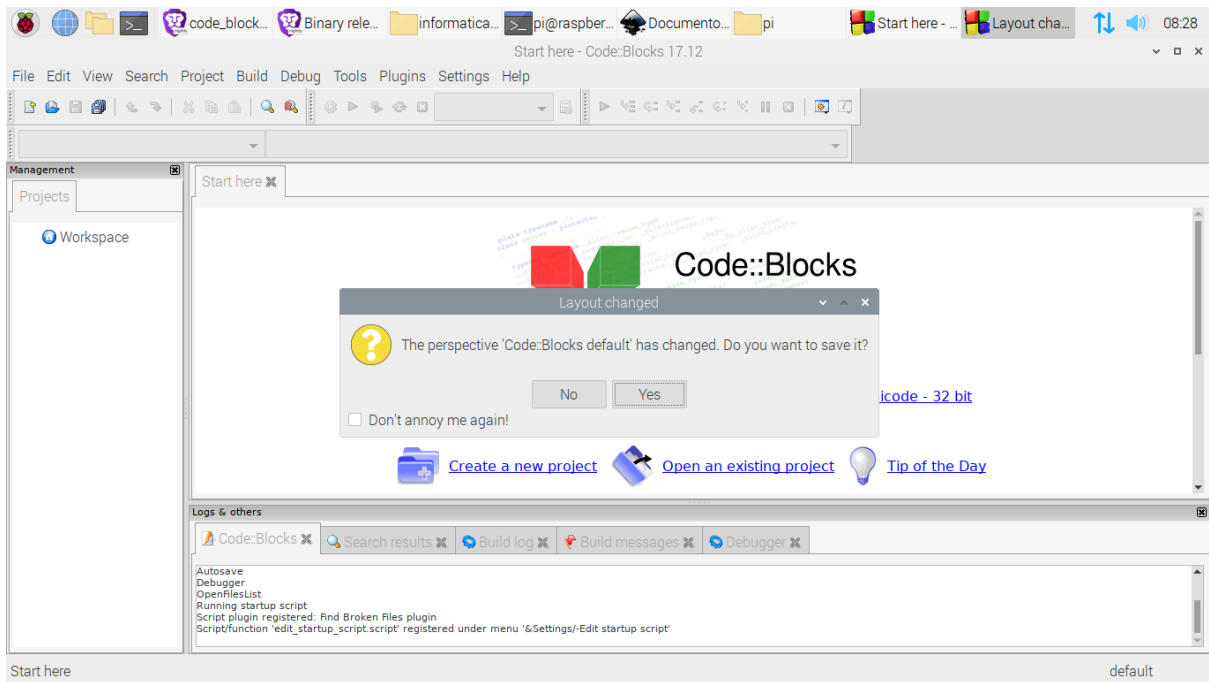
```



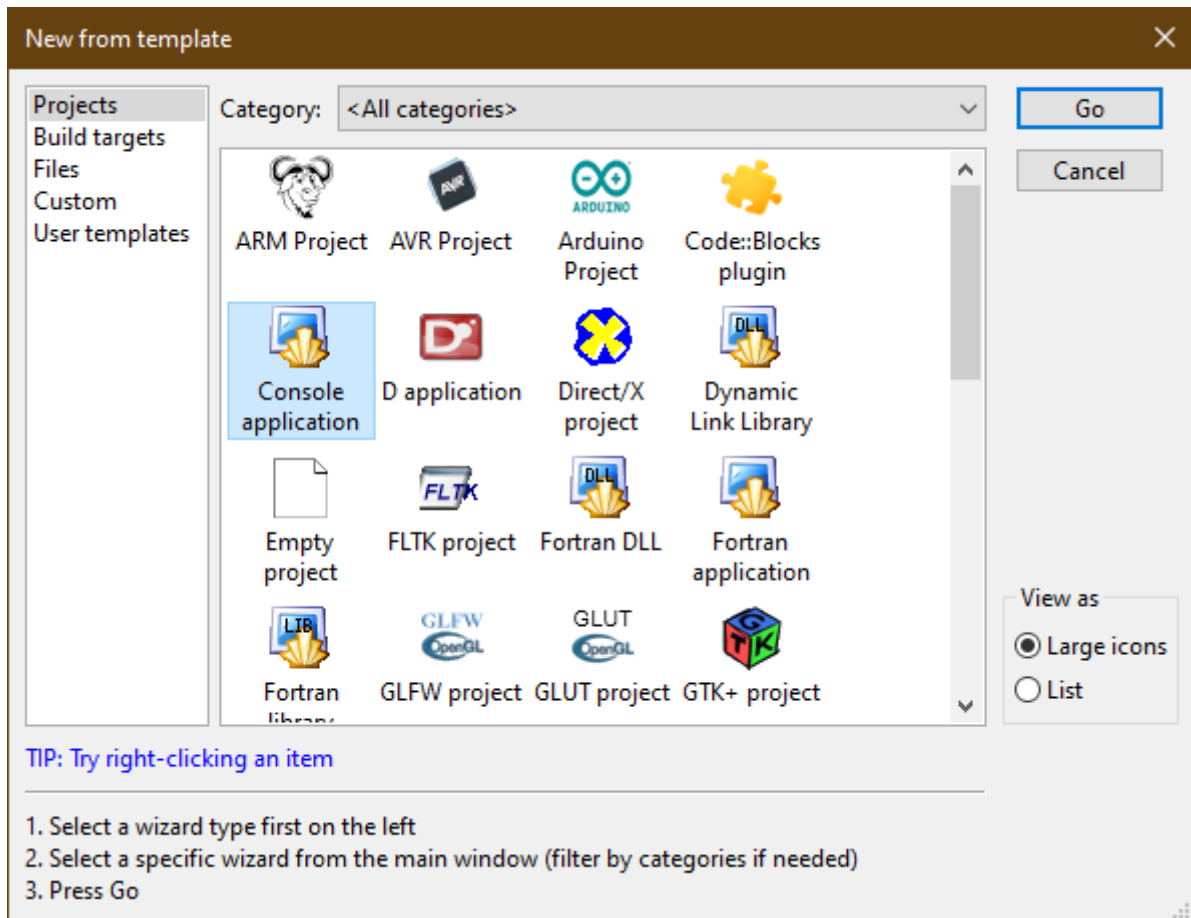
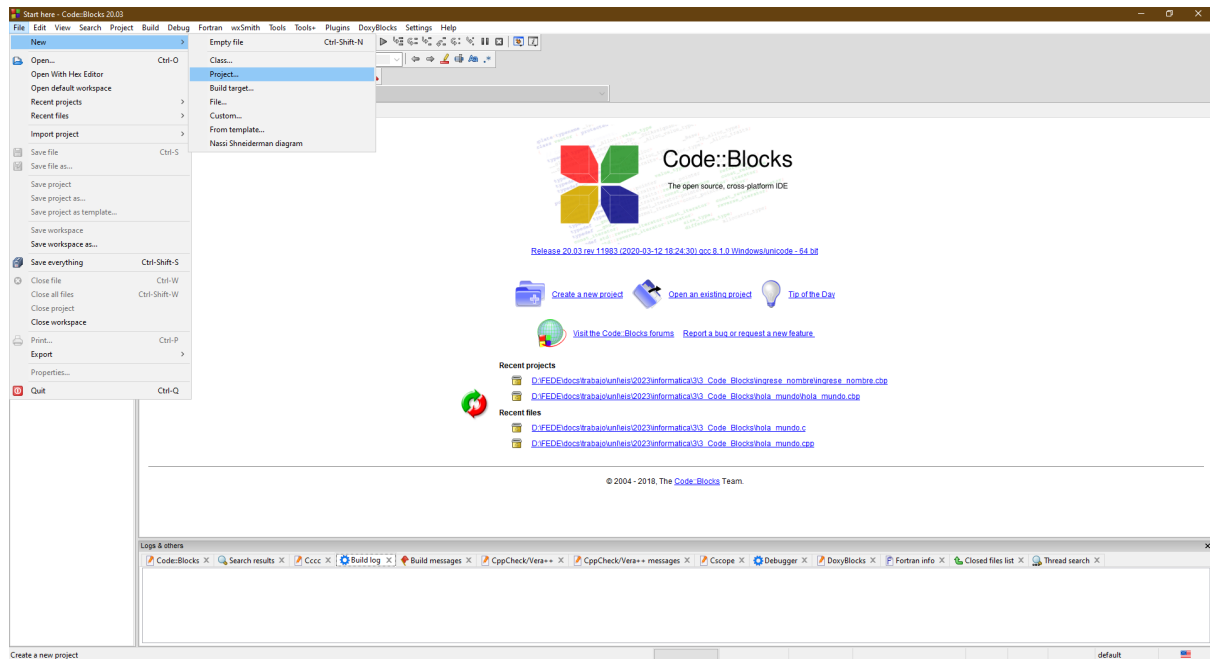


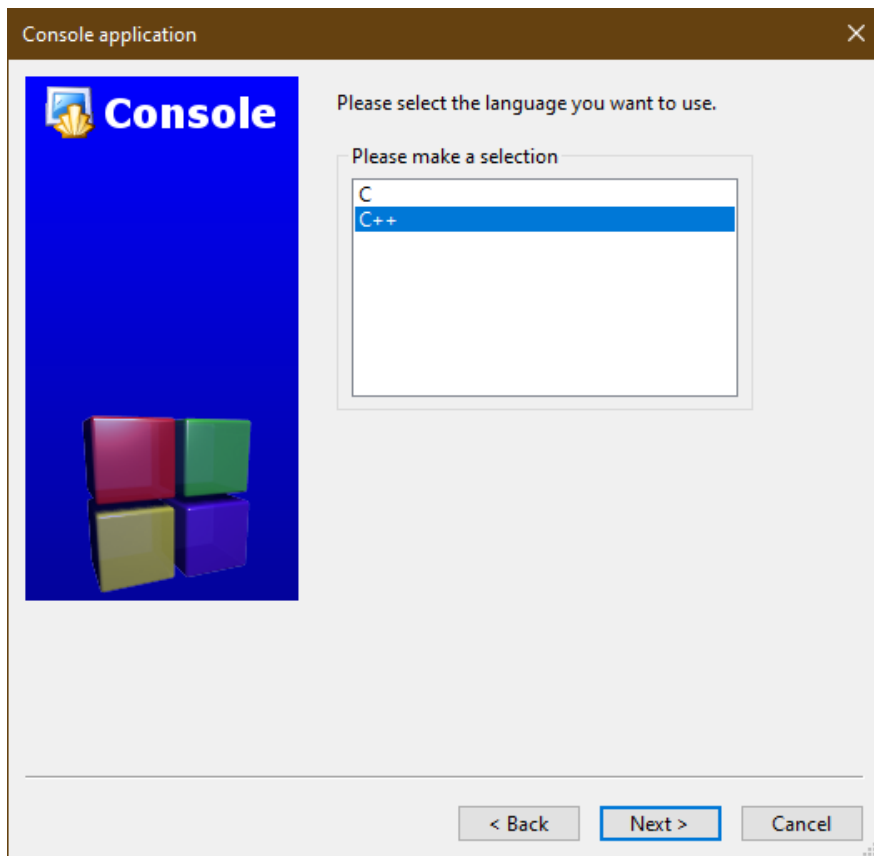
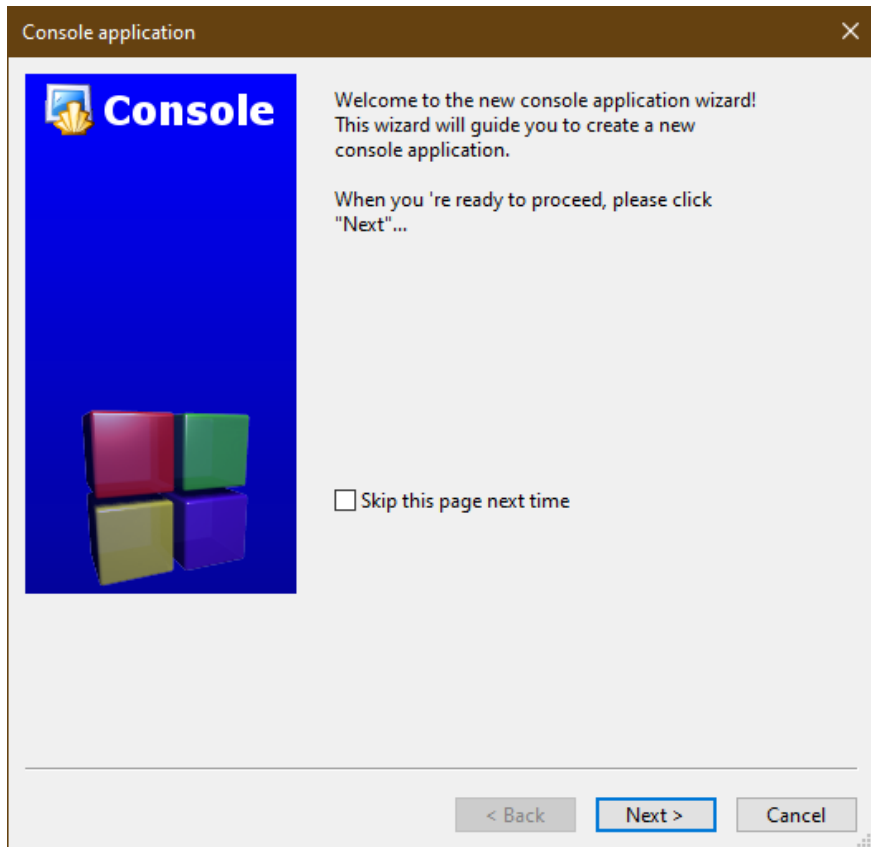







## Hola\_Mundo





Console application

 **Console**

Please select the folder where you want the new project to be created as well as its title.

Project title:


Folder to create project in:  
 ...

Project filename:

Resulting filename:

< Back   Next >   Cancel

Console application

 **Console**

Please select the compiler to use and which configurations you want enabled in your project.

Compiler:

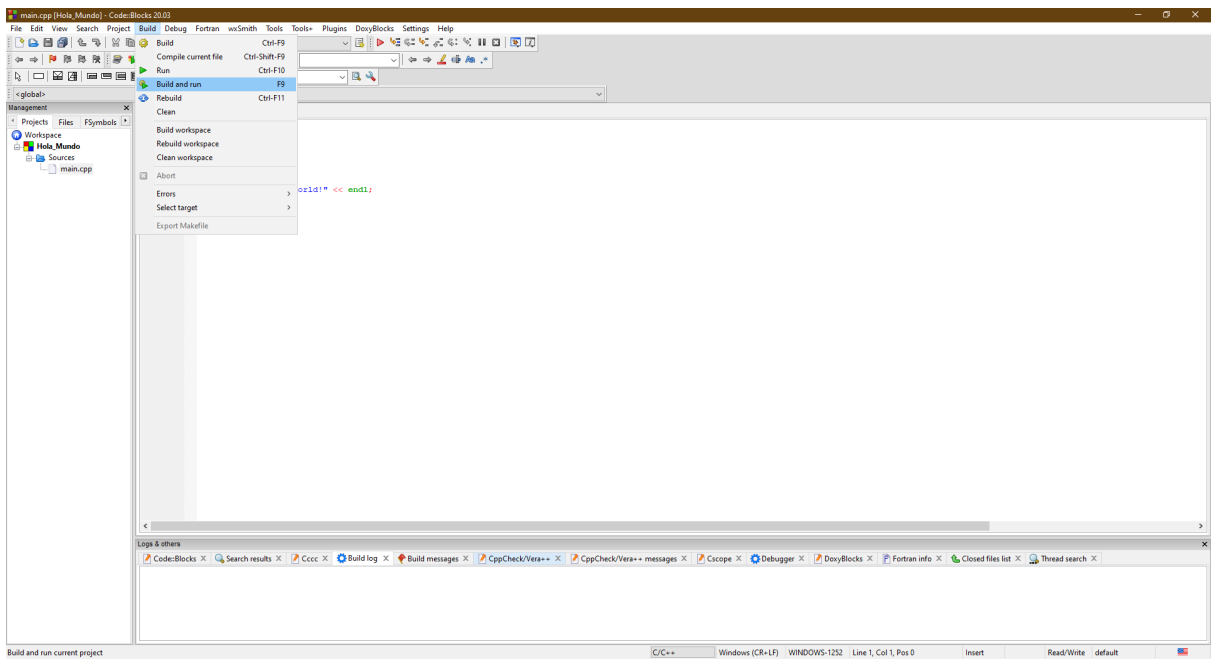
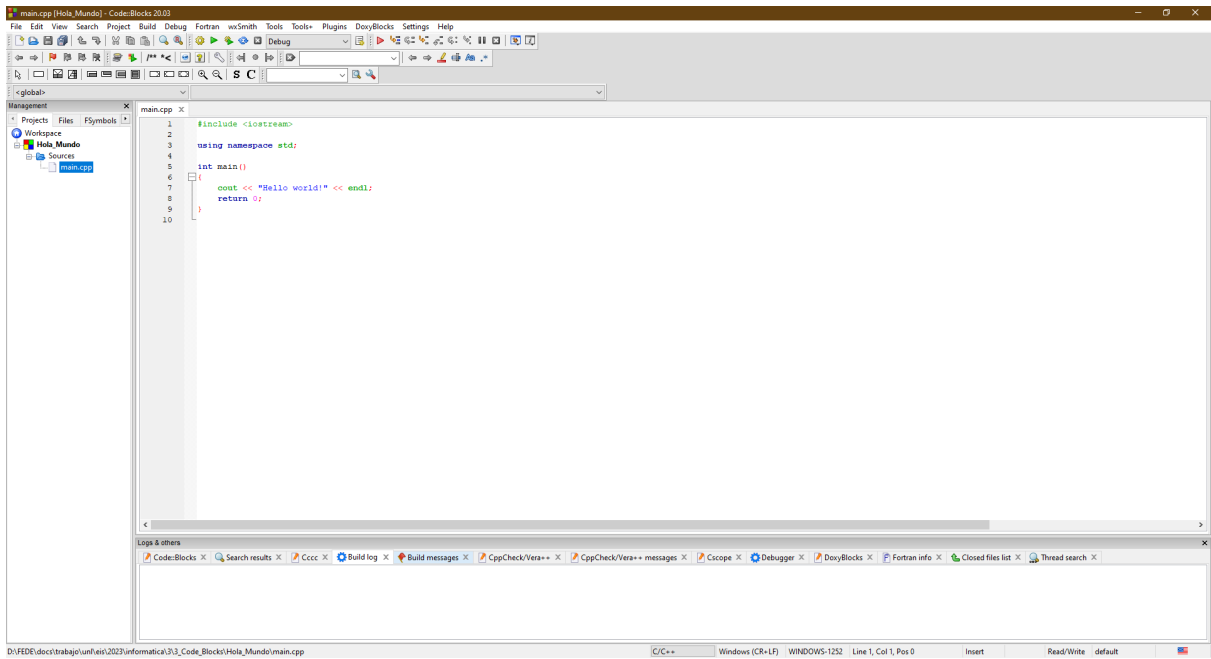
Create "Debug" configuration:

"Debug" options  
Output dir.:   
Objects output dir.:

Create "Release" configuration:

"Release" options  
Output dir.:   
Objects output dir.:

< Back   Finish   Cancel





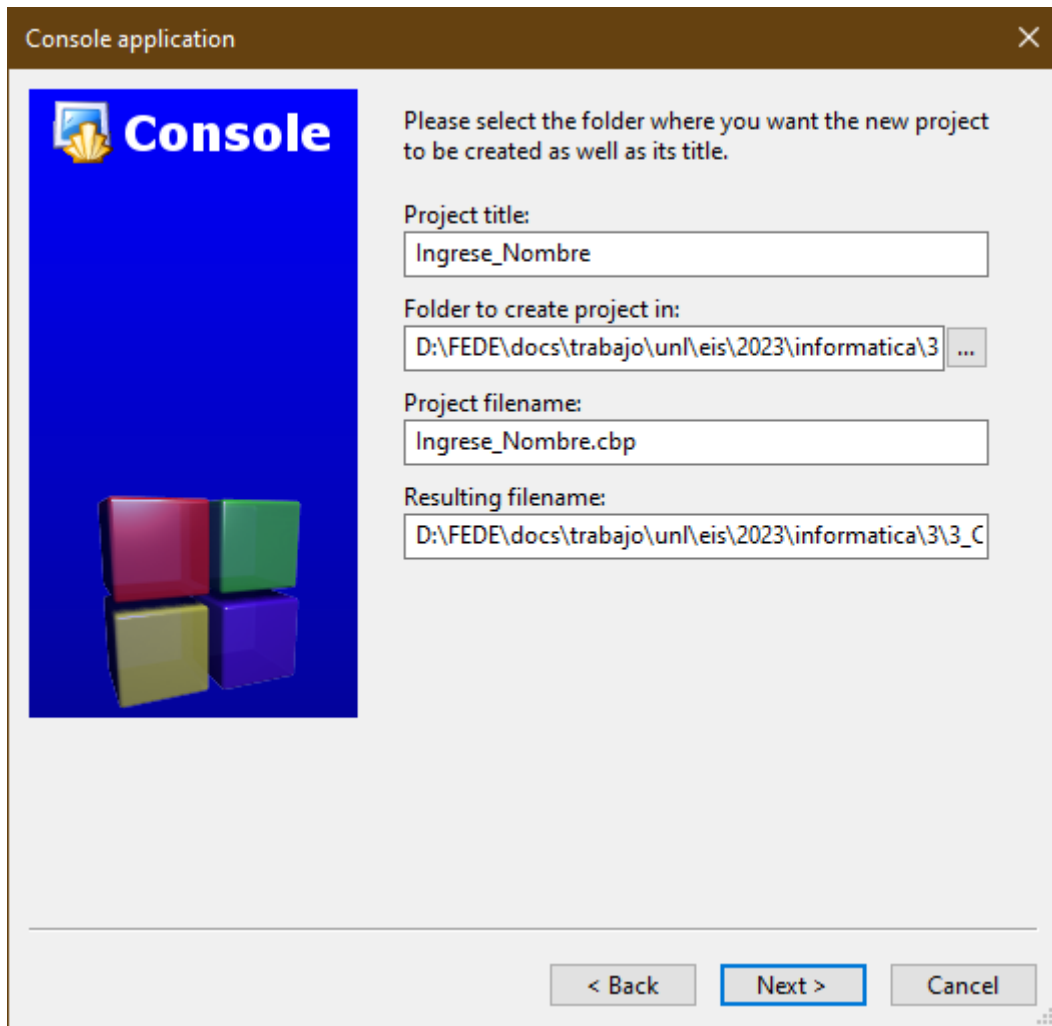
```
D:\FEDE\docs\trabajo\unl\eis\2023\informatica\3\3_Code_Blocks\hola_mundo\bin\Debug\hola_mundo.exe
Hello world!
Process returned 0 (0x0) execution time : 0.056 s
Press any key to continue.
```

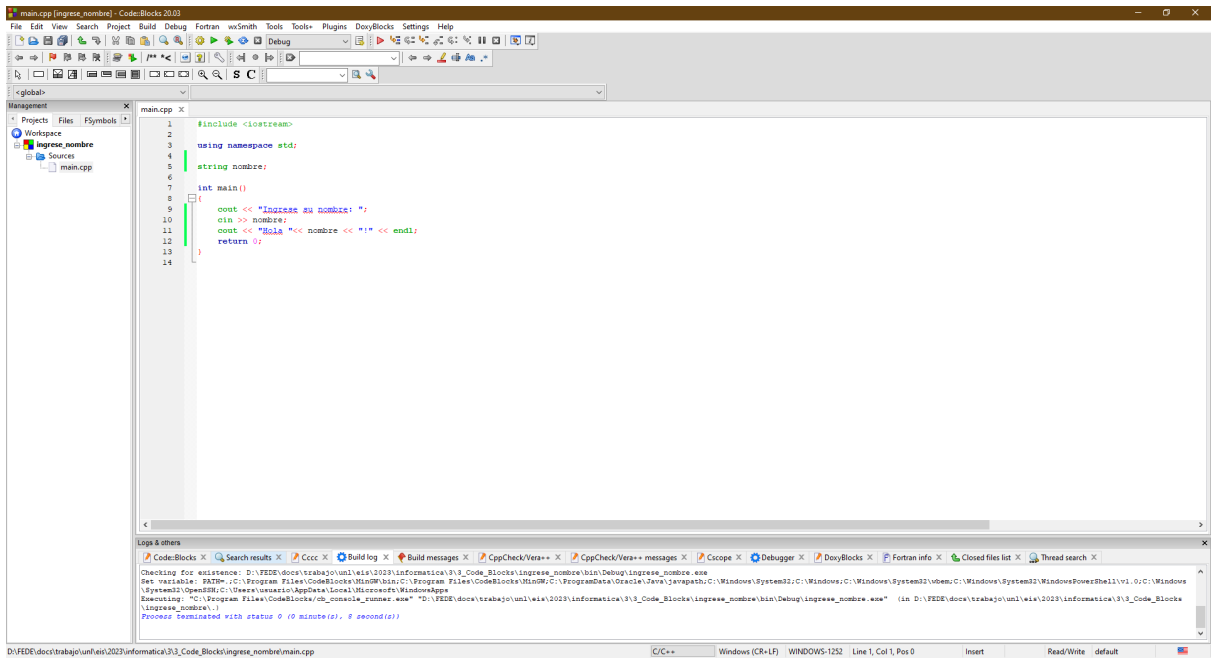
```
main.cpp [hola_mundo] - Code::Blocks 17.12
Settings Help
Debug
d!\" << endl;

Logs & others
Code::Blocks x Search results x Build log x Build messages x Debugger x
----- Run: Debug in hola_mundo (compiler: GNU GCC compiler)-----
Checking for existence: /home/pi/Documents/docs/trabajo/unl/eis/2023/informatica_iii/hola_mundo/bin/Debug/hola_mundo
Executing: xterm -T hola_mundo -e /usr/bin/cb_console_runner LD_LIBRARY_PATH=$LD_LIBRARY_PATH:. /home/pi/Documents/docs/trabajo/unl/eis/2023/informatica_iii/hola_mundo/bin/Debug/hola_mundo (in /home/pi/Documents/docs/trabajo/unl/eis/2023/informatica_iii/hola_mundo/. )

/home/pi/Documents/docs/trabajo/unl/eis/2023/inf... Unix (LF) UTF-8 Line 1, Col 1, Pos 0 Insert Read/Write default
```

Ingrese\_Nombre, idem Hola\_Mundo



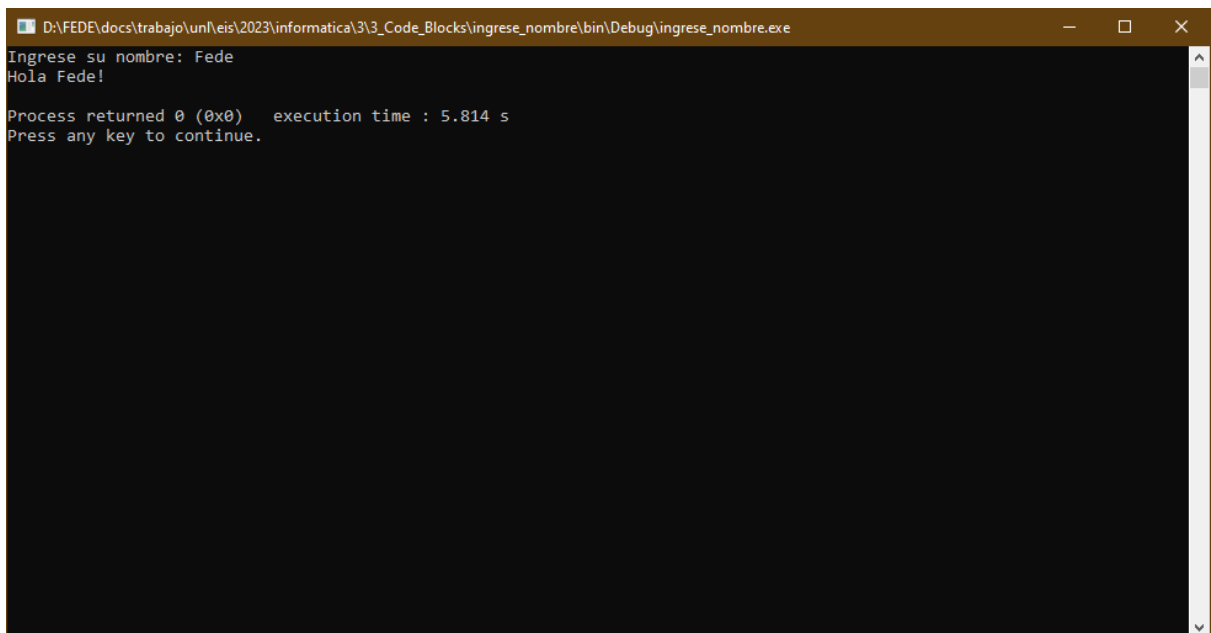


The screenshot shows the Code::Blocks IDE with the following content:

```
1 #include <iostream>
2
3 using namespace std;
4
5 string nombre;
6
7 int main()
8 {
9     cout << "Ingrese su nombre: ";
10    cin >> nombre;
11    cout << "Hola " << nombre << "!*" << endl;
12    return 0;
13 }
14
```

The Output window shows the following execution details:

```
Checking for existence: D:\FEDE\docs\trabajo\unl\eis\2023\informatica\3\3_Code_Blocks\ingrese_nombre\bin\Debug\ingrese_nombre.exe
Sys variable: PATH=C:\Program Files\CodeBlocks\MinGW\bin;C:\Program Files\CodeBlocks\MinGW\C\ProgramData\Oracle\Java\javapath;C:\Windows\System32;C:\Windows;C:\Windows\System32\wbem;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH\cmd;C:\Users\user\AppData\Local\Microsoft\WindowsApps
Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\FEDE\docs\trabajo\unl\eis\2023\informatica\3\3_Code_Blocks\ingrese_nombre\bin\Debug\ingrese_nombre.exe" (in D:\FEDE\docs\trabajo\unl\eis\2023\informatica\3\3_Code_Blocks\ingrese_nombre\bin\Debug\ingrese_nombre.exe)
Process terminated with status 0 (0 minths(s), 0 seconds(s))
```



The screenshot shows a Windows command prompt window with the following output:

```
D:\FEDE\docs\trabajo\unl\eis\2023\informatica\3\3_Code_Blocks\ingrese_nombre\bin\Debug\ingrese_nombre.exe
Ingrese su nombre: Fede
Hola Fede!

Process returned 0 (0x0)   execution time : 5.814 s
Press any key to continue.
```

## Contador/Acumulador

```

1 #include <iostream>
2
3 using namespace std;
4 int indice, entero, contador_negativos, contador_neutros, contador_positivos, acumulador_negativos, acumulador_neutros, acumulador_positivos;
5 int main()
6 {
7     cout << "Ingrese 10 números enteros:" << endl;
8     for (indice=0; indice<10; indice++){
9         cin >> entero;
10        if (entero==0){
11            contador_neutros=contador_neutros+1;
12            acumulador_neutros=acumulador_neutros+entero;
13        } else if (entero>0){
14            contador_positivos=contador_positivos+1;
15            acumulador_positivos=acumulador_positivos+entero;
16        } else{
17            contador_negativos=contador_negativos+1;
18            acumulador_negativos=acumulador_negativos+entero;
19        }
20    }
21    cout << endl << "Negativos " << contador_negativos << " suma " << acumulador_negativos << endl;
22    cout << "Neutros " << contador_neutros << " suma " << acumulador_neutros << endl;
23    cout << "Positivos " << contador_positivos << " suma " << acumulador_positivos << endl;
24    return 0;
25 }
26

```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Ver++ X CppCheck/Ver++ messages X Cscope X Debugger X DoryBlocks X Fortran info X Closed files list X Thread search X

Checking for existence: D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\bin\Debug\contadores.exe  
 Run variable: PATH=C:\Program Files\CodeBlocks\bin;C:\Program Files\CodeBlocks\bin\bin;C:\ProgramData\Oracle\Java\javapath;C:\Windows\System32;C:\Windows\System32\wbem;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Users\usuario\AppData\Local\Microsoft\WindowsApps  
 Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\bin\Debug\contadores.exe" (in D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\.)  
 Process terminated with status 0 (0 minute(s), 22 second(s))

D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\main.cpp C/C++ Windows (CR-LF) WINDOWS-1252 Line 26, Col 1, Pos 1080 Insert Read/Write default

```

D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3_3_Code_Blocks\contadores\bin\Debug\contadores.exe
Ingrese 10 enteros:
0
1
2
3
4
0
-1
-2
-3
-4
Negativos 4 suma -10
Neutros 2 suma 0
Positivos 4 suma 10
Process returned 0 (0x0)   execution time : 42,699 s
Press any key to continue.

```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Ver++ X CppCheck/Ver++ messages X Cscope X Debugger X DoryBlocks X Fortran info X Closed files list X Thread search X

----- Run: Debug in contadores (compiler: GNU GCC Compiler) -----  
 Checking for existence: D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\bin\Debug\contadores.exe  
 Run variable: PATH=C:\Program Files\CodeBlocks\bin;C:\Program Files\CodeBlocks\bin\bin;C:\ProgramData\Oracle\Java\javapath;C:\Windows\System32;C:\Windows\System32\wbem;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Users\usuario\AppData\Local\Microsoft\WindowsApps  
 Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\bin\Debug\contadores.exe" (in D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\.)

D:\FEDE\docs\trabajo\unl\lea\2023\informatica\3\_3\_Code\_Blocks\contadores\main.cpp C/C++ Windows (CR-LF) WINDOWS-1252 Line 1, Col 1, Pos 0 Insert Read/Write default