

Experiment No-1

Experiment Name: Report on Downloading, Installing, and Using Code::Blocks IDE

1.Introduction:

Code::Blocks is a free, open-source, cross-platform IDE that supports multiple compilers including GCC, Clang and Visual C++. It is developed in C++ using wxWidgets as the GUI toolkit. Using a plugin architecture, its capabilities and features are defined by the provided plugins.

2.Downloading Code::Blocks:

Step-1: Open the Official Website

- Open a web browser (Chrome, Firefox, Edge).
- Go to the official website: www.codeblocks.org/downloads.
- Click on "Download the binary release" to get the precompiled versions.

Step-2: Choose the Right Version for codeblocks

- Scroll down to find the Windows version.
- If you're using Windows, select "codeblocksXX.XXmingw-setup.exe" (this includes the compiler).
- (I choose the version which is suitable with Pc or laptop codeblocks-17.12mingw-setup.exe").
- For Linux or macOS, choose the version suitable for your system.

Step-3: Installing Code::Blocks

- Locate the downloaded .exe file in main folder or default folder like and double-click to open the installer.
 - **C:\Users\Dell\Downloads**
 - Click Next and accept the license agreement.
 - Choose the components to install (keep the default selection).
 - Select the installation directory (or use the default location).
 - Click Install and wait for the process to complete..

Step-4: Setting Up Code::Blocks

1. First Launch:

When opening Code::Blocks for the first time, it will ask to auto-detect available compilers. Select the GNU,GCC Compiler and click OK.

2. Verify Compiler Installation:

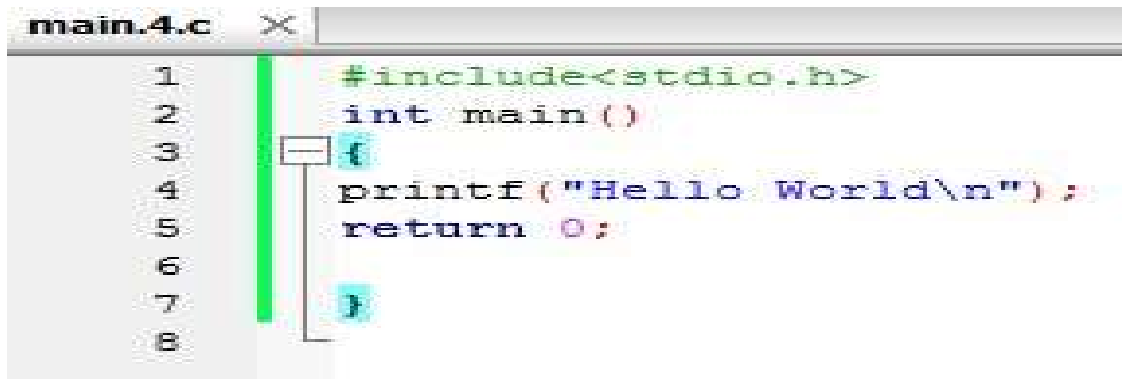
- Go to Settings → Compiler to check if the compiler is detected.
- If no compiler is installed, download and install MinGW separately.

Step-5: Creating and Running a C++ Program

1. Create a New Project.

- Click File → New → Project and select Console Application.
- Choose C++ and click Next.
- Enter the project name and select the destination folder.
- Click Finish to create the project.

Step-6: Write a code: In the main.4.c file, replace the default code with.

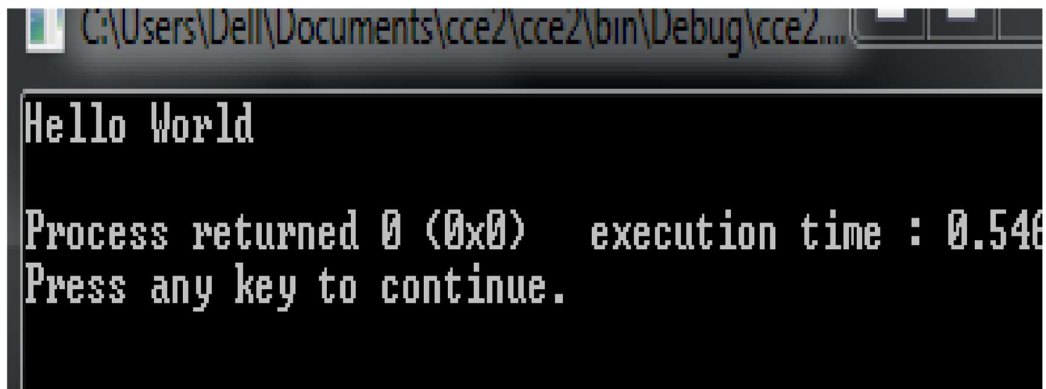


```
main.4.c X
1      #include<stdio.h>
2      int main()
3      {
4      printf("Hello World\n");
5      return 0;
6
7      }
8
```

Step-7: Compile and Run

Click Build → Build and Run or press F9.

If the program runs successfully, the output window will display.



```
C:\Users\Dell\Documents\cce2\cce2\bin\Debug\cce2....
Hello World

Process returned 0 (0x0)   execution time : 0.546
Press any key to continue.
```

3.Conclusion:

Code::Blocks is a powerful and user-friendly IDE for C and C++ development. By following this guide, users can easily download, install, and start using Code::Blocks to write, compile, and execute programs efficiently.