PW N°01
Algorithmics ING 1

Exercise: Installing Code::Blocks and Running a Simple Program in C

Objective:

Install Code::Blocks on your computer and write a simple C/C++ program to verify that everything works correctly.

Step 1: Installing Code::Blocks

1. **Download Code::Blocks:**
   - Visit the official Code::Blocks website: https://www.codeblocks.org/downloads/binaries/.
   - Select the version compatible with your operating system (Windows, macOS, or Linux).
   - For Windows, download the version that includes the MinGW compiler (`codeblocks-XX.xxmingw-setup.exe`).
2. **Installation:**
   - Run the installer file you downloaded.
   - Follow the on-screen instructions, selecting the default options.
   - Ensure that the "Install MinGW" option is checked to include the compiler with Code::Blocks.
3. **Verification:**
   - After installation, open Code::Blocks.
   - A window will appear asking you to configure a compiler. Ensure that "GNU GCC Compiler" is selected, then click OK.

Step 2: Creating and Running a Simple Program

Once Code::Blocks is installed, follow these steps to write and run a C program.

1. **Create a New Project:**
    - Click on File > New > Project.
    - Select "Console Application", then click "Go".
    - Choose your programming language: C or C++.
    - Name your project, choose a location to save it, then click "Next".
2. **Write the Program:**
    - In the file browser on the left, click on `main.c` or `main.cpp` to open the main code file.
    - Delete any automatically generated code and write a simple program.

Test : Simple C program to display "Hello World":

Copier le code

```
#include <stdio.h>

int main() {
    printf("Hello, World!\n");
    return 0;
}
```

3. **Build and Run the Program:**
    - **To compile the program, click on the Build and Run icon (or press F9).**
    - **A terminal window will open, showing the program's output.**

Example Outputs:

- **Example 1: "Hello World" Program in C**

Output:
Copier le code

```
Hello, World!
```

Summary:

This exercise allows students to:

- Install an Integrated Development Environment (IDE) like Code::Blocks.
- Create a programming project.
- Write and run a simple C or C++ program.

It helps them become familiar with the IDE and basic programming concepts.