WEEKLY INTERNSHIP ASSIGNMENT 2

Problem Description

Students document the steps to install or use a C environment (GCC + VS Code / Code::Blocks / Turbo C) and explain how a program is compiled and executed.

Step-by-Step Installation (GCC + VS Code)

Step 1: Install Visual Studio Code

- Download Visual Studio Code from the official website
- Install and open the application

Step 2: Install C/C++ Extension

- Open Extensions in VS Code
- Search for C/C++
- Install the extension

Step 3: Install GCC Compiler

- Install MinGW (Windows) or GCC (Linux/Mac)
- Add GCC to system PATH

```
Verify installation using:
</> gcc --version
```

Writing and Running a C Program

Step 1: Create a C Program

```
Create a file named sample.c:
</> #include <stdio.h>

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

Step 2: Compile the Program

```
in Terminal
</> gcc sample.c -o sample
```

Step 3: Execute the Program

```
in Terminal
</> ./sample
```

C Source Code → GCC Compiles Source Code → Executable File Generated → Executable Run Using Terminal → Output Displayed on Screen