

1. GCC Compiler Install VS Code , Steps for installation and first program.

Aim:

To install GCC compiler, set up Visual Studio Code for C programming, and write the first C program successfully.

Steps For Installation:

1. Download and Install GCC Compiler:

- Visit the official MinGW website (<https://www.mingw-w64.org/>).
- Download the MinGW setup file according to your system architecture (32-bit or 64-bit).
- Install it in your preferred directory (e.g., C:\MinGW).
- During installation, select 'mingw32-gcc-g++' and proceed.
- Add the bin folder path (e.g., C:\MinGW\bin) to the system environment variables under PATH.

2. Verify GCC Installation:

- Open Command Prompt and type: gcc --version
- If installed correctly, it will display the GCC version.

3. Install Visual Studio Code:

- Visit <https://code.visualstudio.com/> and download the setup file.
- Run the setup and complete the installation process.

- Open VS Code and install the 'C/C++' extension by Microsoft from the Extensions Marketplace.

4. Configure VS Code for C Programming:

- Create a new folder for your C programs.
- Open the folder in VS Code.
- Create a new file with '.c' extension (e.g., hello.c).
- Save your code and open the terminal in VS Code.

5. Write and Run the First C Program:

- Write a simple C program (as shown below).
- Compile it using: gcc hello.c -o hello
- Run it using: ./hello

Code:

```
#include <stdio.h>
int main(){
    printf("Name : Alisha \n ERP : 10142 \n");
    return 0;
}
```

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int main(){
    printf("Name : Alisha \n ERP : 10142 \n");
    return 0;
}
```

Output: