

STEPS TO INSTALL VS CODE

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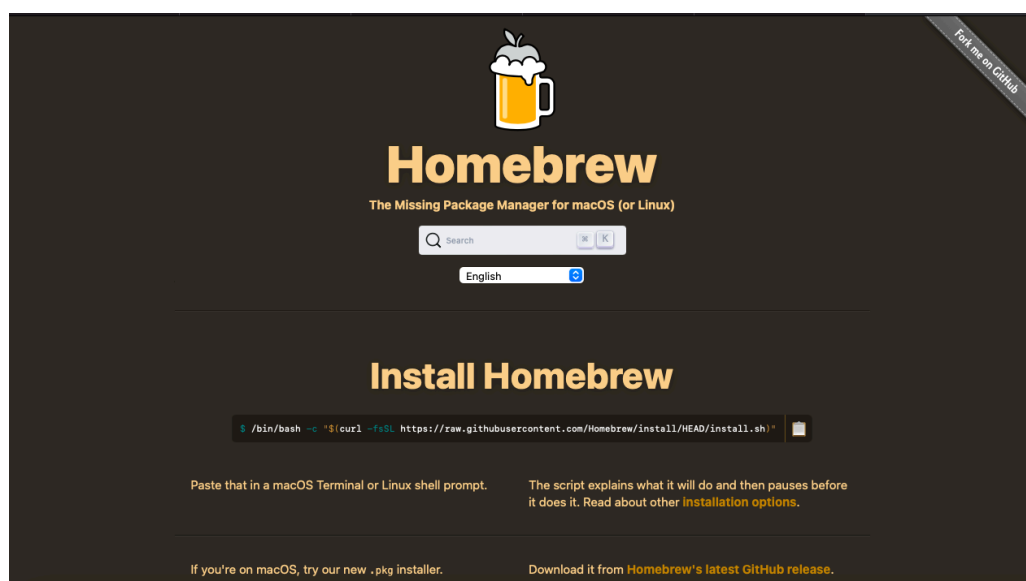
ENTC B3

To install Visual Studio Code (VS Code) and set up MinGW (Minimalist GNU for Windows) on a MacBook Air, you'll actually need to use **Homebrew** to install the GCC (GNU Compiler Collection) .

1. Install Homebrew

Homebrew is a package manager for macOS that simplifies the installation of software.

1. Open the Terminal application.
2. Install Homebrew by pasting the following command and pressing Enter:
`/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`



3. Follow the on-screen instructions to complete the installation. You may need to enter your password.

2. Install GCC

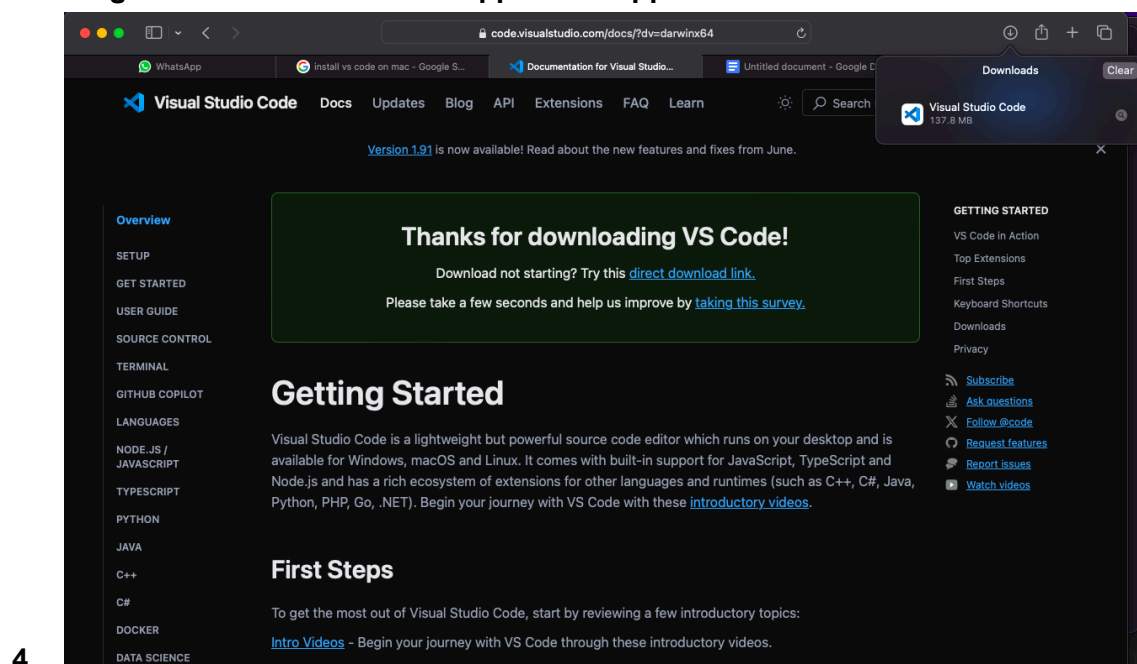
GCC is a compiler collection that supports various programming languages, including C++.

1. In the Terminal, run the following command to install GCC:

```
brew install gcc
```

3. Install Visual Studio Code

1. Download the VS Code installer from the [Visual Studio Code website](https://code.visualstudio.com/).
2. Open the downloaded `.dmg` file.
3. Drag the Visual Studio Code app to the Applications folder.



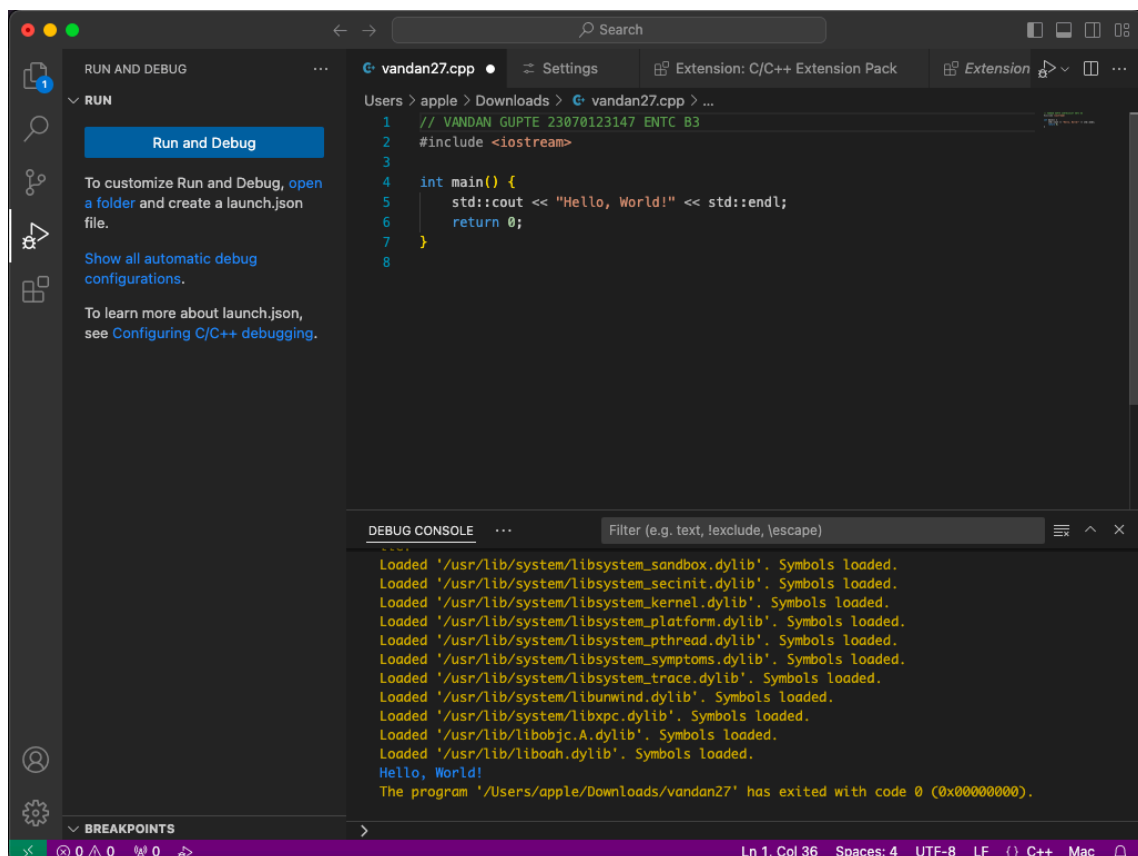
4. Configure VS Code for C++

1. Open VS Code from your Applications folder.
2. Install the C/C++ extension by Microsoft:
 - Click on the Extensions view icon on the Sidebar or press `Cmd+Shift+X`.
 - Search for **C++** and install the **C/C++** extension by Microsoft.

5. Configure the C++ Environment in VS Code

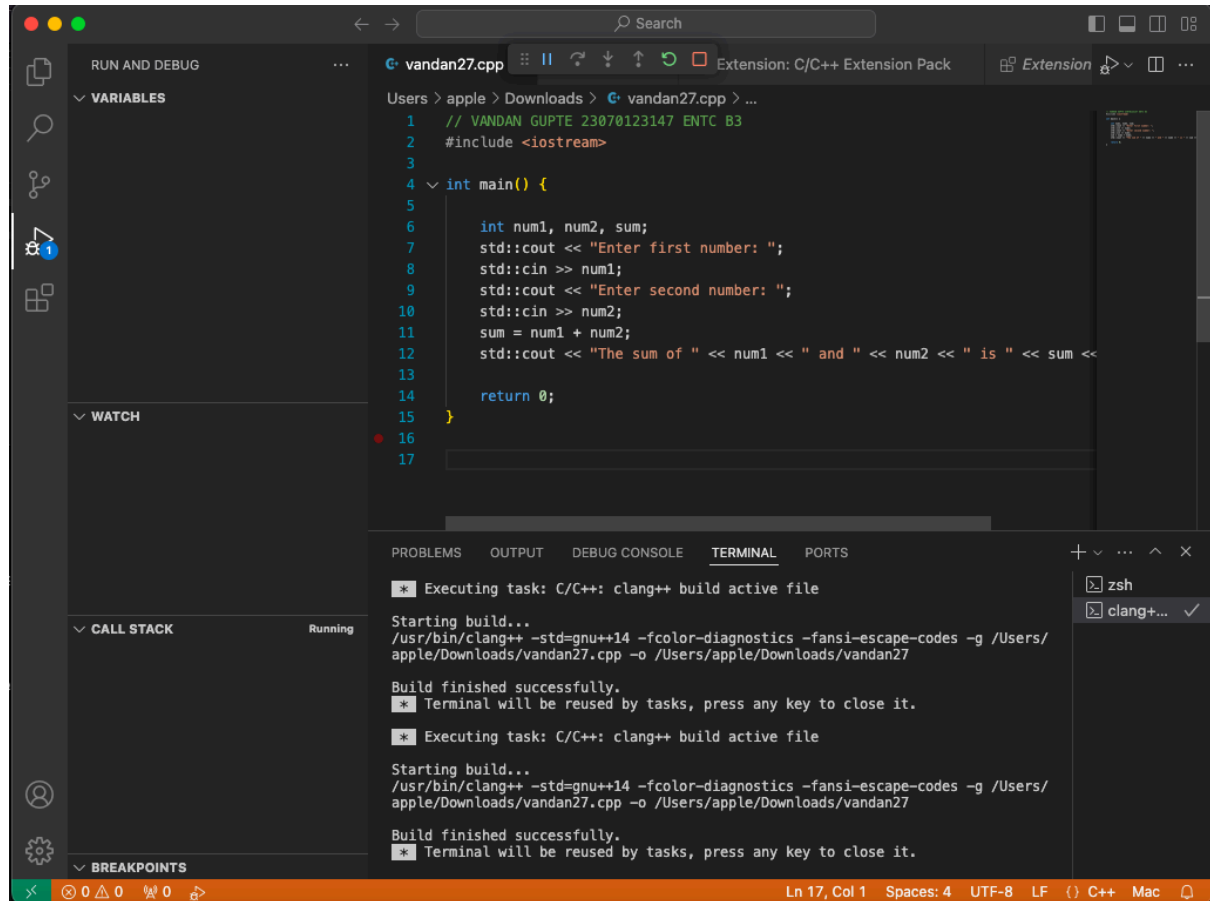
1. Open VS Code and create a new C++ file (`example.cpp`).
2. Open the Terminal in VS Code by pressing `Ctrl+`` (backtick).
3. Write a simple C++ program in `vandan27.cpp`:

EXP 1 :- WRITE A CPP PROGRAM TO PRINT HELLO WORLD!



EXP 2:- WRITE A CPP PROGRAM TO PRINT THE SUM OF TWO NUMBERS

INPUT :-



The screenshot shows a C++ IDE with a file named `vandan27.cpp`. The code is as follows:

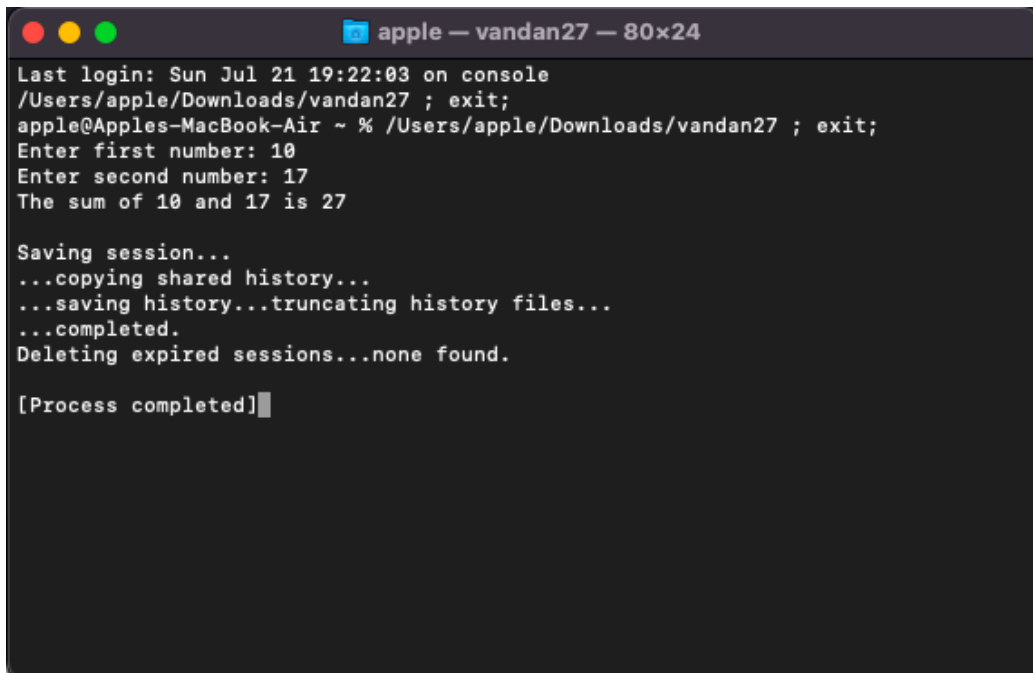
```
1 // VANDAN GUPTA 23070123147 ENTC B3
2 #include <iostream>
3
4 int main() {
5
6     int num1, num2, sum;
7     std::cout << "Enter first number: ";
8     std::cin >> num1;
9     std::cout << "Enter second number: ";
10    std::cin >> num2;
11    sum = num1 + num2;
12    std::cout << "The sum of " << num1 << " and " << num2 << " is " << sum << "\n";
13
14    return 0;
15 }
```

The IDE interface includes a sidebar with sections for `VARIABLES`, `WATCH`, `CALL STACK`, and `BREAKPOINTS`. The bottom panel shows the `TERMINAL` with the following output:

```
Executing task: C/C++: clang++ build active file
Starting build...
/usr/bin/clang++ -std=gnu++14 -fcolor-diagnostics -fansi-escape-codes -g /Users/apple/Downloads/vandan27.cpp -o /Users/apple/Downloads/vandan27
Build finished successfully.
* Terminal will be reused by tasks, press any key to close it.
Executing task: C/C++: clang++ build active file
Starting build...
/usr/bin/clang++ -std=gnu++14 -fcolor-diagnostics -fansi-escape-codes -g /Users/apple/Downloads/vandan27.cpp -o /Users/apple/Downloads/vandan27
Build finished successfully.
* Terminal will be reused by tasks, press any key to close it.
```

The status bar at the bottom indicates the current position is `Ln 17, Col 1`, with `Spaces: 4`, `UTF-8`, `LF`, and the active file is `C++` on a `Mac`.

OUTPUT:-



```
apple — vandan27 — 80x24
Last login: Sun Jul 21 19:22:03 on console
/Users/apple/Downloads/vandan27 ; exit;
apple@Apples-MacBook-Air ~ % /Users/apple/Downloads/vandan27 ; exit;
Enter first number: 10
Enter second number: 17
The sum of 10 and 17 is 27

Saving session...
...copying shared history...
...saving history...truncating history files...
...completed.
Deleting expired sessions...none found.

[Process completed]
```