

To compile and run a C program using Turbo C, an IDE for C programming, you can follow these steps:

## 1. Launch Turbo C:

- Open Turbo C on your system. It is an IDE specifically designed for C programming.

## 2. Create a new source file:

- Click on the “File” menu and select “New” to create a new source file.

## 3. Write your C program:

- In the editor window that opens, write your C program using the C programming language syntax.

## 4. Save the source file:

- Click on the “File” menu and select “Save” to save your C program file with a .c extension (e.g., program.c).
- Choose a suitable location and provide a filename for your program.

## 5. Compile the C program:

- Click on the “Compile” menu and select “Compile” or press the F9 key.
- The Turbo C compiler will compile your C program and check for any syntax errors.

## 6. Check for compilation errors:

- If there are any errors in your program, Turbo C will display them in the “Output” window.
- Fix the errors in your source code based on the error messages provided.

## 7. Run the compiled program:

- Once the compilation is successful, click on the “Run” menu or press Ctrl+F9 to run the compiled program.
  - The output of the program will be displayed in the “Output” window.
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## Some IDEs that support C programming:

### 1. Visual Studio Code (VS Code):

- VS Code is a lightweight and versatile code editor that supports C programming.
- It offers various features such as syntax highlighting, code completion, debugging, and integrated terminal.
- It is highly customizable and supports extensions for additional functionality.

### 2. Code::Blocks:

- Code::Blocks is a free and open-source IDE specifically designed for C, C++, and Fortran.

- It provides a user-friendly interface and features like code highlighting, code completion, project management, and debugging.
- Code::Blocks is available for Windows, Linux, and macOS.

### 3. Eclipse with C/C++ Development Tools (CDT):

- Eclipse is a widely used IDE for various programming languages, including C and C++.
- The CDT plugin provides comprehensive tools for C development, including code navigation, debugging, and refactoring.
- Eclipse is available for Windows, Linux, and macOS.

### 4. Xcode (for macOS and iOS development):

- Xcode is the official IDE for macOS and iOS development and supports C programming.
- It offers an intuitive interface, powerful debugging tools, and integration with other Apple development frameworks.
- Xcode is available only for macOS.

### 5. Dev-C++:

- Dev-C++ is a lightweight and easy-to-use IDE for C and C++ programming.
- It provides an integrated development environment with features like syntax highlighting, code completion, and debugging.
- Dev-C++ is available for Windows.

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## Some online platforms to write and run C programs:

1. OnlineGDB (<https://www.onlinegdb.com/>)
2. Repl.it (<https://replit.com/>)
3. JDoodle (<https://www.jdoodle.com/c-online-compiler>)
4. IDEONE (<https://ideone.com/>)
5. CodeChef IDE (<https://www.codechef.com/ide>)

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62. Write a program that asks the user to enter a number and then calculates and prints its factorial.
63. Write a program that asks the user to enter a number N and then prints the first N numbers in the Fibonacci sequence
64. Write a program that swaps the values of two variables without using a temporary

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