Steps for compilation and Execution of a C program in a Linux Environment

1. Open the command prompt terminal
2. To compile a C file, use the following command:
   * + **gcc -pthread -o <filename> <filename>.c**
     + **For without synchronization: gcc -pthread -o pthread-without-synchronization pthread-without-synchronization.c**
     + **For with synchronization: gcc -pthread -o pthread-with-synchronization pthread-with-synchronization.c**
3. To run the C file after compilation, use the following command:
   * + **./<filename> <command-line-arguments>**
     + **Example: ./ pthread-without-synchronization 2**
     + **Example: ./ pthread-with-synchronization 3**