I have used Github to manage your project files, as required by the assignment. Link to my github repository: <https://github.com/AbulHasanShaik/OSProgAssign1>

Steps to Run the Program:

1. Download Cygwin Terminal: <https://www.cygwin.com/>

* **Steps to Resolve Missing Headers**
* **Ensure Core Cygwin Development Tools Are Installed**
  + The required headers like wait.h is part of the base Cygwin system and development tools. You can install them by selecting the appropriate packages from the **Devel** section.
* **Reopen Cygwin Setup**:
  + Re-run the setup-x86\_64.exe to modify the installation.
* **Search for Essential Packages**:
  + In the **Search** bar at the top of the package selection screen, type the following keywords to install these packages:
    - **cygwin**: Ensure the core package cygwin is selected and up-to-date. This includes many core system files.
    - **gcc-core**: The core GCC compiler for compiling C programs.
    - **gcc-g++**: The GCC C++ compiler.
    - **libgcc1**: Cygwin runtime and shared libraries, needed for most development tasks.
    - **libc6**: While libc6-dev might not be available, libgcc1 should provide essential functionality.
    - **libsocket** or **libsocket-devel**: Provides socket headers and libraries, if available.
  + Ensure that these packages are selected by clicking "Skip" next to them until a version number appears.
* **Complete Installation**:
  + Click **Next** to proceed and allow Cygwin to download and install the selected packages.
* **Check if Headers Exist by typing these commands in the Cygwin terminal**:
  + ls /usr/include/sys/wait.h

1. Open the Cygwin Terminal.
   * Navigate to the directory where your source file (main.cpp) is located. You can use the cd command to do this. For example:
     1. cd /cygdrive/c/Users/shaik/OneDrive/School/Operating Systems/Programming Assignment 1/
     2. (In Cygwin, Windows directories are mounted under /cygdrive/, so you'll need to use that path structure.)
2. Compile the program using g++ (or gcc for C). Run the following command in the terminal:
   * g++ main.cpp -o main
3. Once the program is compiled, you can run it using the following command:
   * A screen shot of a computer

     Description automatically generated