Week 10: Version Control with Git & GitHub

Objective: Use Git and GitHub to manage a C++ project. **Task:** This is a procedural task, not a coding one.

1. Choose one of the previous C++ practicals (e.g., the Week 6 `Car` class).
2. Navigate to that project's directory in your terminal.
3. Initialize a new Git repository: `git init`
4. Add your `.cpp` file to the staging area: `git add W6_Practical.cpp`
5. Commit the file: `git commit -m "Initial commit: Add Car class practical"`
6. Go to GitHub.com, create a new public repository (e.g., "intro-to-cpp-practicals").
7. Follow GitHub's instructions to link your local repository to the remote one and push your commit. The commands will look something like this:
   - `git remote add origin <your-repo-url.git>`
   - `git branch -M main`
   - `git push -u origin main`

```cpp
// ----- Test 2: Using assert() -----

// assert() checks if a condition is true. If it's false, the program

// will terminate and print an error message indicating the failed assertion.

// This is useful during development to catch bugs early.

std::cout << "Running assert test..." << std::endl;

assert(add(5, 5) == 10);

assert(add(-1, -1) == -2);

assert(add(10, -5) == 5);

std::cout << "All assert tests passed successfully!" << std::endl;


return 0;
}
```