**Objective:**

* The goal of this assignment is to introduce you to using Git as a version control system and to gain hands-on experience with Git commands.
* This assignment prepares you for collaborating in a team environment using GitHub for version control.

**Problem:**

* Write a program which reads a list of integers from the user, calculates the mean (average), median, and mode of the list, and displays the results.
* The program must have appropriate error-handling (such as the user enters a string rather than an integer and comments explaining how the code works.

**Create a local repository**

* Install Git on your laptop
* Initialize a local Git repository on your laptop
* Ensure your program is within this repository by staging it and committing it with an appropriate comment.

**Work with GitHub**

* Create a GitHub Account (if you don’t already have one) [GitHub](https://github.com).
* Create a Remote Repository:
  + Log in to GitHub and create a new repository for this course.
* Create a personal access token. You will need it to push your local repository to GitHub. Store it in a safe place.
* Add Me as a Collaborator. My GitHub username is mcgarrymvcu
  + Go to the repository settings on GitHub.
  + Navigate to the "Collaborators and Teams" section.
  + Add my GitHub username Push Local Repository to GitHub:
  + Link your local repository to the GitHub repository:
* Create a connection between your local repository and your GitHub repository
  + git remote add origin <your-github-repo-url>
  + Enter your personal access token when prompted
  + verify by the command git remote -v
* Push your code to GitHub:
  + git push -u origin main
* Verify Your Work:
  + Ensure your repository on GitHub includes your program
  + Confirm that I have read-only access to your repository.

**Deliverables**

Package of screenshots that include the following

* Your program/code
* Proof that the program runs successfully
* Your local repository commit history (git log)
* A screenshot of your GitHub repository which includes your program
* A screenshot of your GitHub’s repository’s collaborators, which includes my ID

**Rubric:**

* Code meets specification, has appropriate comments and error handling: 50 points
* Code is included in local repository (through git log): 20 points
* Creation of GitHub repository with your code: 15 points
* Instructor is added as a collaborator: 15 points