Lab Assignment 9 (02/16/2023)

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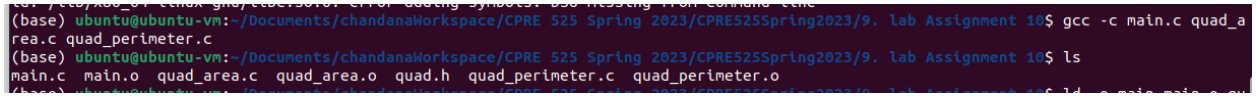
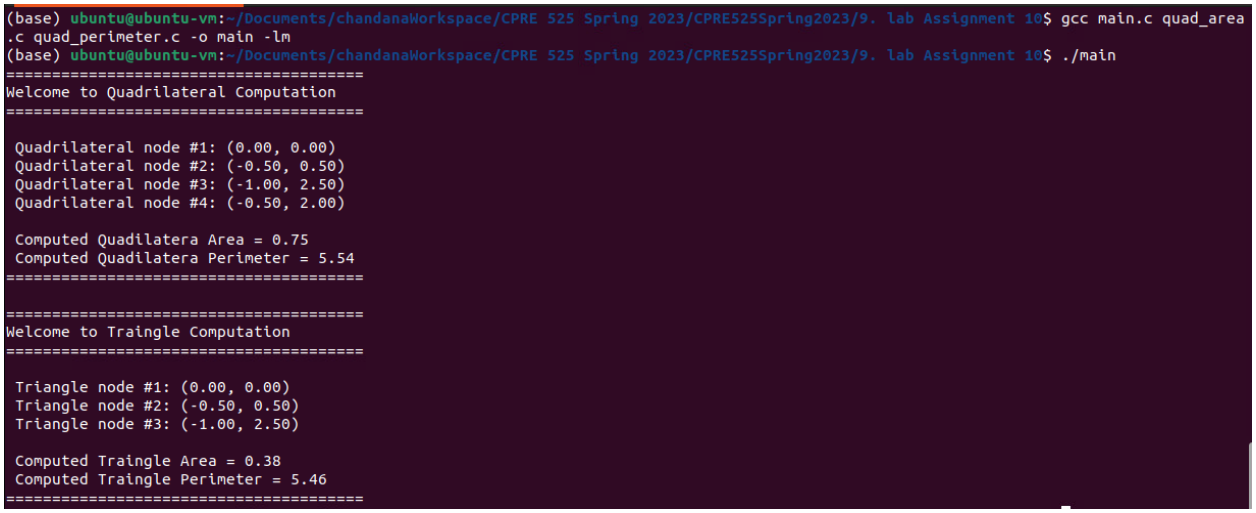
Tasks:

1. Develop source code main.c(with main()) for computing the area and perimeter of an input quadrilateral, use/declare struct in a header file, define functions for computing area and perimeter in separated files(quad_perimeter.c and quad_area.c). and then call them in main().
   1. Try compiling multiple files together into a single executable(main.exe)
   2.try compile multiple files to objects(*.o) and link them to single executable (main.exe)
2. Push the code to GitHub.
3. File transfer and Up-to-date in Nova cluster

Submission Files and Results:

1. Screenshot for area and perimeter of an input quadrilateral (also included triangle computation that was discussed in the class)





2. Push the code to GitHub
   a. Git status check

```
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        8. Lab Assignment 9/8. Lab Assignment 9 Submission.pdf
        9. lab Assignment 10/

nothing added to commit but untracked files present (use "git add" to track)
```

b. Git add and git status

```
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git add .
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   8. Lab Assignment 9/8. Lab Assignment 9 Submission.pdf
        new file:   9. lab Assignment 10/main
        new file:   9. lab Assignment 10/main.c
        new file:   9. lab Assignment 10/quad.h
        new file:   9. lab Assignment 10/quad_area.c
        new file:   9. lab Assignment 10/quad_perimeter.c
```

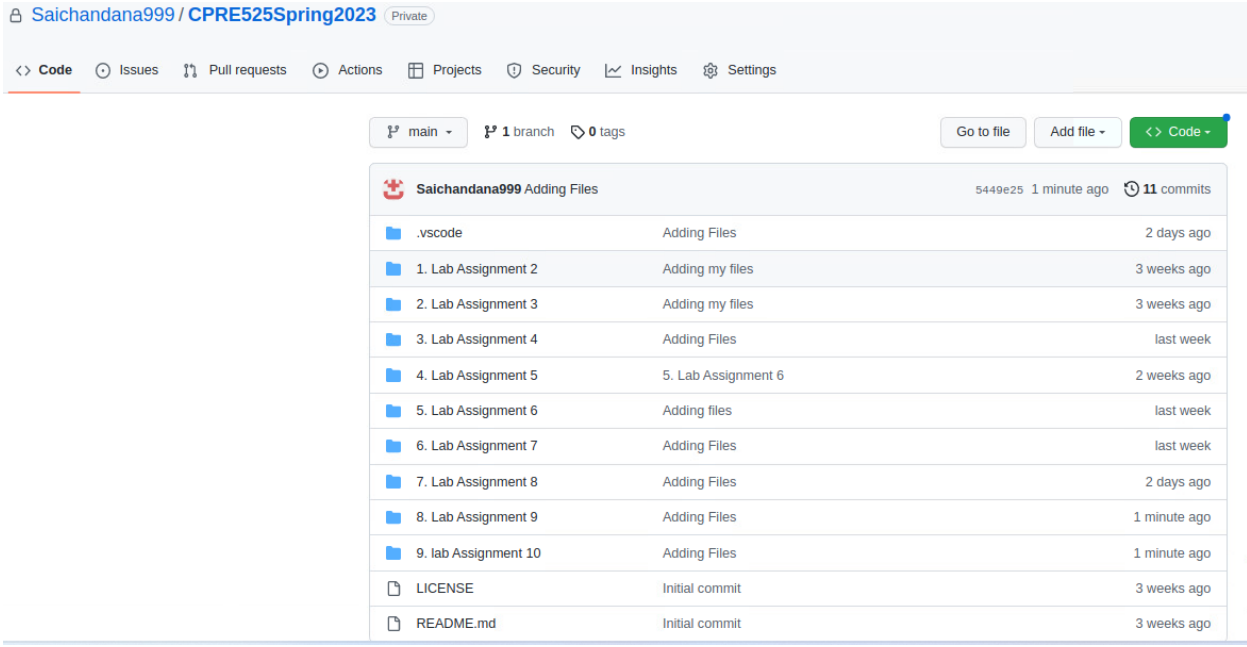
c. Git committed the files

```
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git commit -m "Adding Files"
[main 5449e25] Adding Files
 6 files changed, 189 insertions(+)
 create mode 100644 8. Lab Assignment 9/8. Lab Assignment 9 Submission.pdf
 create mode 100755 9. lab Assignment 10/main
 create mode 100644 9. lab Assignment 10/main.c
 create mode 100644 9. lab Assignment 10/quad.h
 create mode 100644 9. lab Assignment 10/quad_area.c
 create mode 100644 9. lab Assignment 10/quad_perimeter.c
```

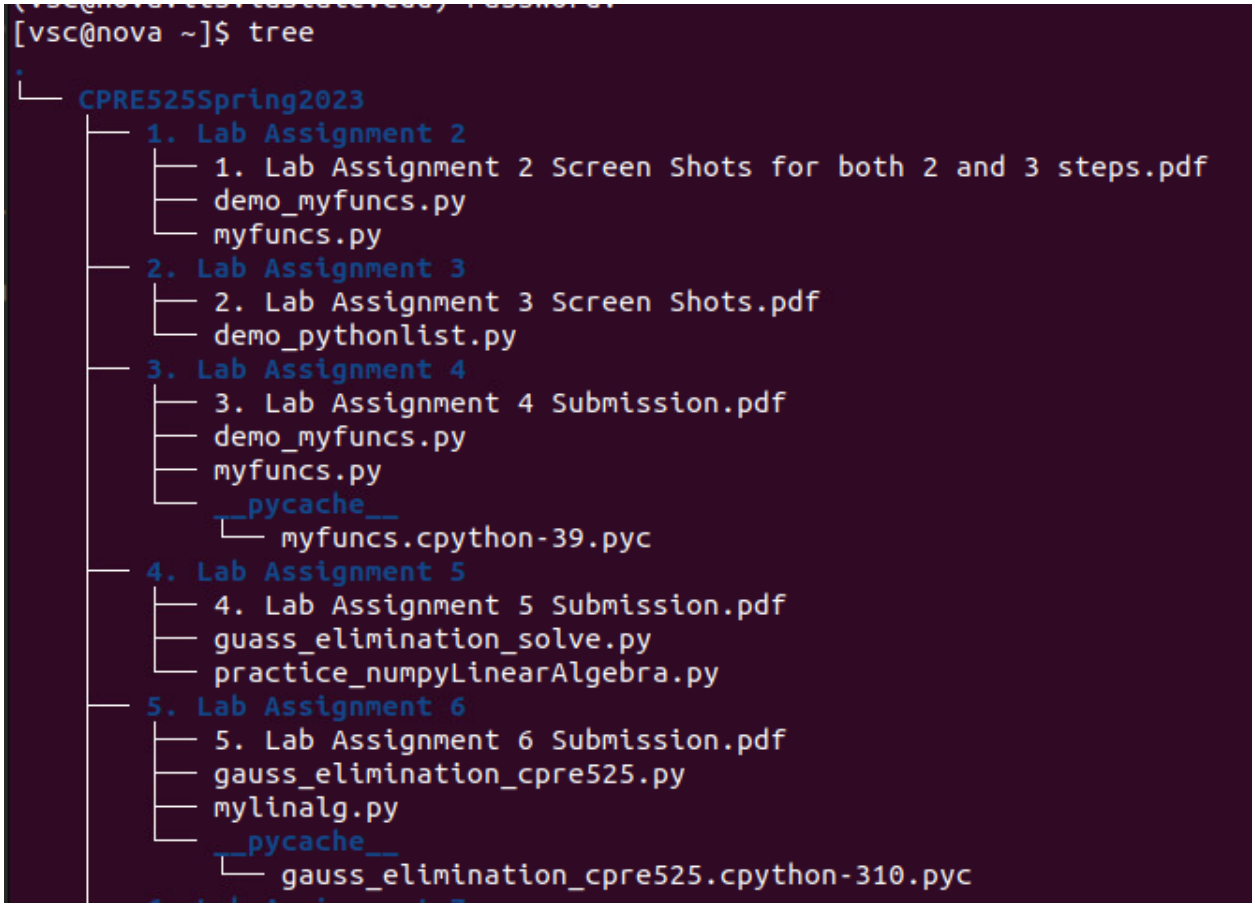
d. Git push

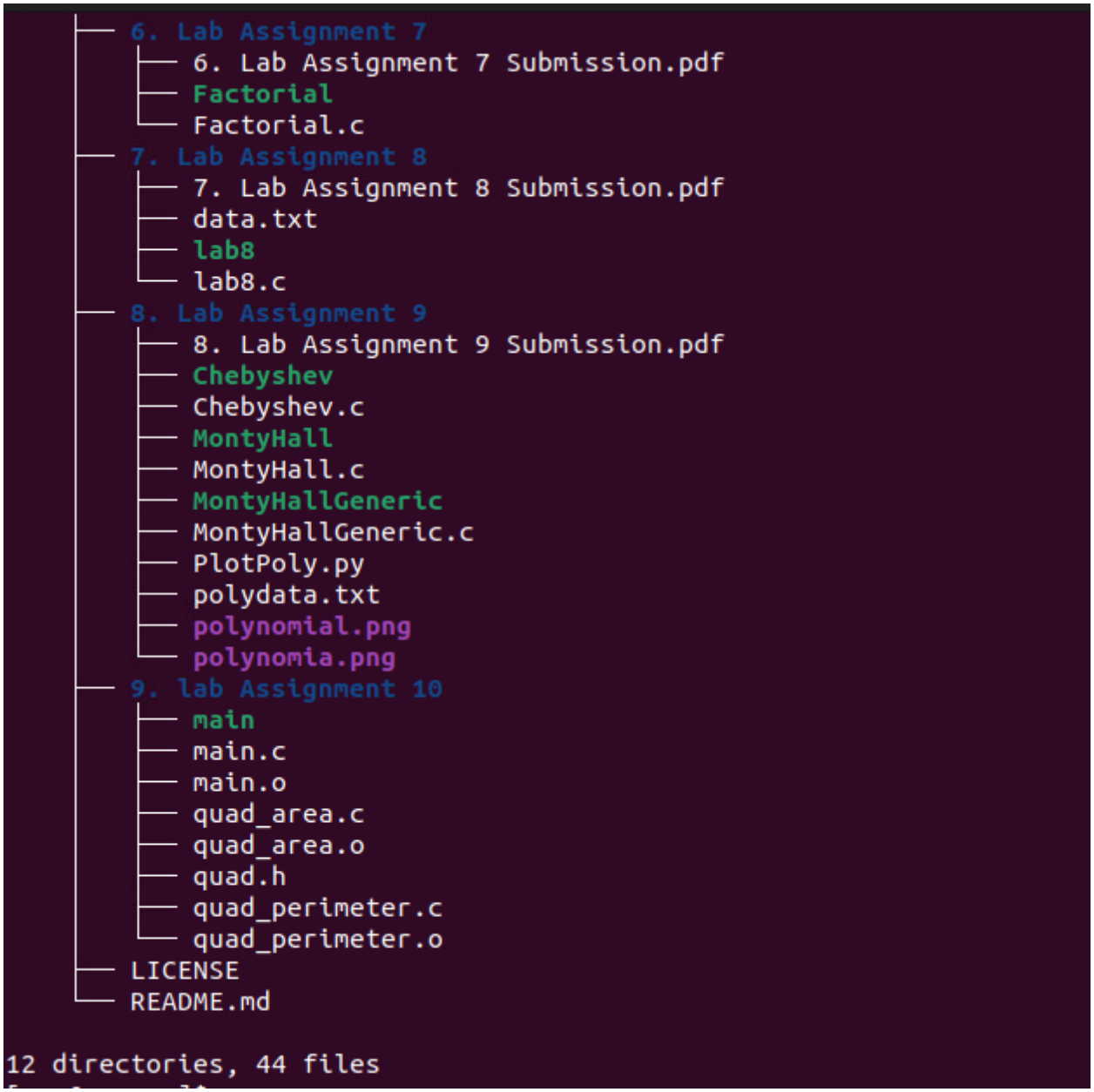
```
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git push
Username for 'https://github.com': Saichandana999
Password for 'https://Saichandana999@github.com':
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (10/10), 1.99 MiB | 5.22 MiB/s, done.
Total 10 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/Saichandana999/CPRE525Spring2023.git
   634a314..5449e25  main -> main
```

e. Final GitHub repository



3. Files transferred and up-to-date in Nova cluster.




6. Lab Assignment 7
6. Lab Assignment 7 Submission.pdf
Factorial
Factorial.c
7. Lab Assignment 8
7. Lab Assignment 8 Submission.pdf
data.txt
lab8
lab8.c
8. Lab Assignment 9
8. Lab Assignment 9 Submission.pdf
Chebyshev
Chebyshev.c
MontyHall
MontyHall.c
MontyHallGeneric
MontyHallGeneric.c
PlotPoly.py
polydata.txt
polynomial.png
polynomia.png
9. lab Assignment 10
main
main.c
main.o
quad_area.c
quad_area.o
quad.h
quad_perimeter.c
quad_perimeter.o
LICENSE
README.md
12 directories, 44 files