Lab Assignment 14 (03/03/2023) Saichandana V (vsc@iastate.edu)

Tasks:

Develop source program with functions for power iteration, shifted inverse power iteration and Rayleigh quotient iteration, and test these functions with examples. Submit both source codes and screenshots.

Use Makefile. Submit source codes and screenshots.

- 2. Push the code to GitHub.
- 3. File transfer and Up-to-date in Nova cluster

Submission Files and Results:

1. Screenshot

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

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: 12. Lab Assignment 13/12. Lab Assignment 13 Submission.pdf
        new file: 13. Lab Assignment 14/matrix/Makefile
        new file: 13. Lab Assignment 14/matrix/main.c
        new file: 13. Lab Assignment 14/matrix/main.exe
        new file: 13. Lab Assignment 14/matrix/main.o
        new file: 13. Lab Assignment 14/matrix/matrix.c
        new file: 13. Lab Assignment 14/matrix/matrix.c
        new file: 13. Lab Assignment 14/matrix/matrix.c
        new file: 13. Lab Assignment 14/matrix/matrix.c
```

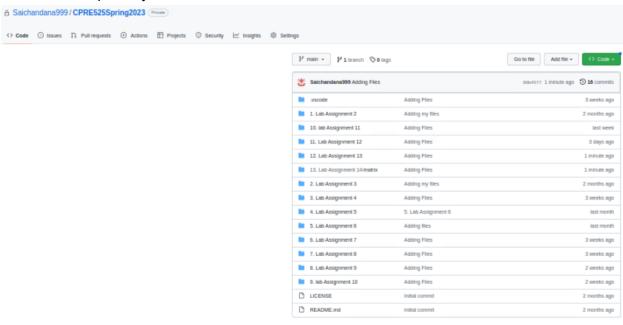
c. Git committed the files

```
(base) ubuntu@ubuntu-vm:~/Documents/chandanaWorkspace/CPRE 525 Spring 2023/CPRE525Spring2023$ git commit -m "Adding Files" [main 90b4577] Adding Files
8 files changed, 827 insertions(+)
create mode 100644 12. Lab Assignment 13/12. Lab Assignment 13 Submission.pdf
create mode 100644 13. Lab Assignment 14/matrix/Makefile
create mode 100644 13. Lab Assignment 14/matrix/main.c
create mode 100644 13. Lab Assignment 14/matrix/main.exe
create mode 100644 13. Lab Assignment 14/matrix/main.o
create mode 100644 13. Lab Assignment 14/matrix/matrix.c
create mode 100644 13. Lab Assignment 14/matrix/matrix.h
create mode 100644 13. Lab Assignment 14/matrix/matrix.h
create mode 100644 13. Lab Assignment 14/matrix/matrix.o
```

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: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 8 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (13/13), 800.97 KiB | 12.92 MiB/s, done.
Total 13 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Saichandana999/CPRE525Spring2023.git
2252d73..90b4577 main -> main
```

e. Final GitHub repository



3. Files transferred and up-to-date in Nova cluster. <Unable to connect to Nova. I will update it later>