# Git Initial Setup Summary Sheet
## CMPS 352 Operating Systems – Fall 2020

Create Assignment Directory – on freebsd1
1. Connect to CMPS VPN – using your R# and my.scranton.edu password.
2. Log into freebsd1.cs.scranton.edu – CMPS username and password
3. Create cs352 directory – `mkdir cs352`
4. Change to cs352 – `cd cs352`
5. View the path and files – `pwd, ls -l`

Make Assignment Directory a LOCAL Git Repo – on freebsd1
1. Change to cs352 – `cd cs352`
2. Set it up as Git repo – `git init`
3. View Git repo – `cd .git, ls -l, cd ..`

Create the REMOTE Git Repo – on cvs/kelper
1. Log into cvs.cs.scranton.edu – CMPS username and password
2. Change to your directory – `cd /git/course-repos/fall2020/cmps352/yourusername`
3. Initialize it as a Git repo – `git init –shared --bare`

Connect Local Git Repo to REMOTE Git Repo – on freebsd1
1. Log into freebsd1.cs.scranton.edu – CMPS username and password
2. Change to asgn directory – `cd cs352`
3. Connect to the remote Git repo – `git remote add origin ssh://yourusername@cvs.cs.scranton.edu/git/course-repos/fall2020/cmps352/yourusername`

Create, Edit, Compile, Run C Programs – on freebsd1
1. Log into freebsd1.cs.scranton.edu – CMPS username and password
2. Change to asgn directory – `cd cs352`
3. Create C program file - `nano asgn1-yourusername.c`
4. Compile your C program to a.out - `gcc asgn1-yourusername.c`
5. Compile your C program to custom name - `gcc -o hello_world asgn1-yourusername.c`
6. See your executable files – `ls -l`
7. Run your C program -- `./a.out` or `./hello_world`

Add Source Code Files to LOCAL Git Repo – on freebsd1
1. Log into freebsd1.cs.scranton.edu – CMPS username and password
2. Change to asgn directory – `cd cs352`
3. Git-stage your C program files - `git add asgn1-yourusername.c` or `git add *.c`
4. Git-commit staged files - `git commit -m "Submission of Assignment 1"`

Submit Your Assignment to REMOTE Git Repo – on freebsd1
1. Log into freebsd1.cs.scranton.edu – CMPS username and password
2. Change to asgn directory – `cd cs352`
3. Git-push your local Git Rep to Remote - `git push origin master`
4. Git-commit staged files - `git commit -m "Submission of Assignment 1"`
5. List all remote Git repos -- `git remote -v`

Verify Your Git Submission – on freebsd1
1. Log into freebsd1.cs.scranton.edu – CMPS username and password
2. Cd to your home directory (DO NOT change to cs352) - `cd`
3. Git-clone your remote Git repo - `git clone ssh://yourusername@cvs.cs.scranton.edu/git/course-repos/fall2020/cmps352/yourusername cs352-git`
4. Change to cs352-git – `cd cs352-git`
5. View the submitted program – `more/cat/nano asgn1-yourusername.c`
6. Compile and run the program – `gcc asgn1-yourusername.c, ./a.out`