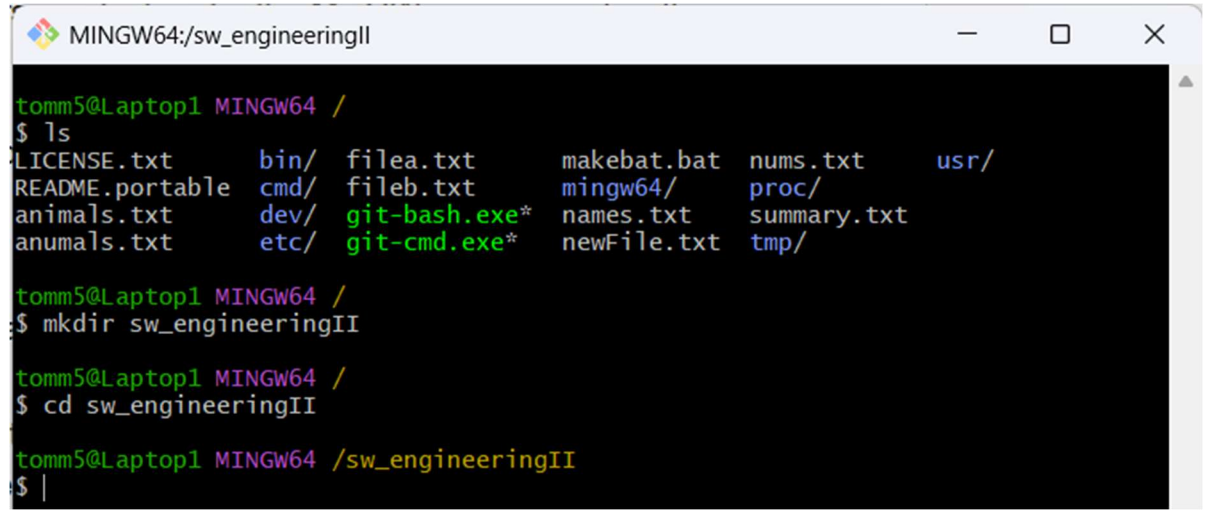


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HW2

1. Create and move to directory
 - a. Using WSL2 on my laptop



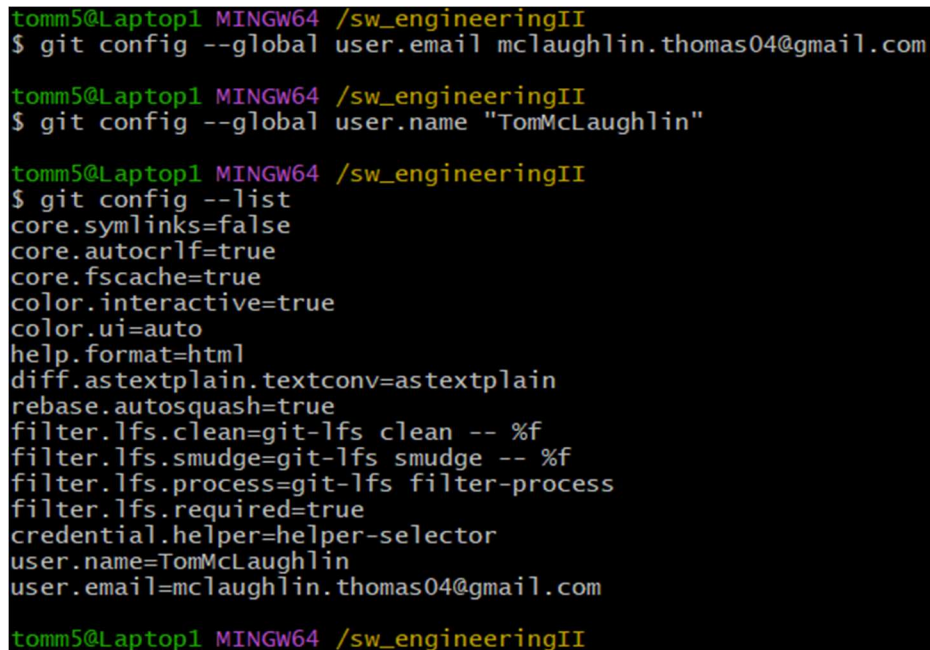
```
mingw64:/sw_engineeringII
tomm5@Laptop1 MINGW64 /
$ ls
LICENSE.txt      bin/      filea.txt      makebat.bat    nums.txt      usr/
README.portable  cmd/      fileb.txt      mingw64/       proc/
animals.txt      dev/      git-bash.exe*  names.txt      summary.txt
anumals.txt      etc/      git-cmd.exe*   newFile.txt    tmp/

tomm5@Laptop1 MINGW64 /
$ mkdir sw_engineeringII

tomm5@Laptop1 MINGW64 /
$ cd sw_engineeringII

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ |
```

2. Configure global parameters



```
tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git config --global user.email mclaughlin.thomas04@gmail.com

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git config --global user.name "TomMcLaughlin"

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git config --list
core.symlinks=false
core.autocrlf=true
core.fscache=true
color.interactive=true
color.ui=auto
help.format=html
diff.astextplain.textconv=astextplain
rebase.autosquash=true
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
credential.helper=helper-selector
user.name=TomMcLaughlin
user.email=mclaughlin.thomas04@gmail.com

tomm5@Laptop1 MINGW64 /sw_engineeringII
```

3. Initialize current Directory

```
tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git init
Reinitialized existing Git repository in D:/PortableGit/sw_engineeringII/.git/

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ ls -s
total 32
32 README.txt
```

4. start git directory

```
tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git init
Reinitialized existing Git repository in D:/PortableGit/sw_engineeringII/.git/

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ ls -s
total 32
32 README.txt

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ ls -a
./ ../ .git/ README.txt

tomm5@Laptop1 MINGW64 /sw_engineeringII
$
```

5. Add readme.txt

```
tomm5@Laptop1 MINGW64 /sw_engineeringII
$ git init
Reinitialized existing Git repository in D:/PortableGit/sw_engineeringII/.git/

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ ls -s
total 32
32 README.txt

tomm5@Laptop1 MINGW64 /sw_engineeringII
$ ls -a
./ ../ .git/ README.txt

tomm5@Laptop1 MINGW64 /sw_engineeringII
$
```

6. Create new file that wont be tracked

```
ahlanah@MSI:~/gitlab1$ touch notMe.txt
ahlanah@MSI:~/gitlab1$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notMe.txt

nothing added to commit but untracked files present (use "git add" to track)
ahlanah@MSI:~/gitlab1$ git status -s
?? notMe.txt
```

7. Commit

```
ahlanah@MSI:~/gitlab1$ git commit -m "Initial project version"
[master (root-commit) fdc0c14] Initial project version
Committer: ahlanah <ahlanah@MSI.localdomain>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
create mode 100644 README.txt
```

```
ahlanah@MSI:~/gitlab1$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    notMe.txt

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

8. Ignore

```
ahlanah@MSI:~/gitlab1$ echo "notMe.txt" > .gitignore
ahlanah@MSI:~/gitlab1$ cat .gitignore
notMe.txt
ahlanah@MSI:~/gitlab1$ git add .gitignore
ahlanah@MSI:~/gitlab1$ git commit -m "Add .gitignore to ignore notMe.txt"
[master dd6228f] Add .gitignore to ignore notMe.txt
1 file changed, 1 insertion(+)
create mode 100644 .gitignore
ahlanah@MSI:~/gitlab1$ git status
On branch master
nothing to commit, working tree clean
ahlanah@MSI:~/gitlab1$ |
```

9. Apply using C project

```
ahlanah@MSI:~/gitlab1$ cd ~
ahlanah@MSI:~$ mkdir gitlab#9
ahlanah@MSI:~$ mkdir gitlabprob9
ahlanah@MSI:~$ cd gitlabprob9
ahlanah@MSI:~/gitlabprob9$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ahlanah/gitlabprob9/.git/
ahlanah@MSI:~/gitlabprob9$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
ahlanah@MSI:~/gitlabprob9$ |
```

```
ahlanah@MSI:~/gitlabprob9$ cat > hello.c << 'EOF'
> #include <stdio.h>
> int main(void) {
>   printf("Hello, World!\n");
>   return 0;
> }
> EOF
```

```
ahlanah@MSI:~/gitlabprob9$ gcc hello.c -o hello
ahlanah@MSI:~/gitlabprob9$ ./hello
Hello, World!
ahlanah@MSI:~/gitlabprob9$ gcc -c hello.c
ahlanah@MSI:~/gitlabprob9$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
      hello
      hello.c
      hello.o

nothing added to commit but untracked files present (use "git add" to track)
ahlanah@MSI:~/gitlabprob9$ |
```

```
ahlanah@MSI:~/gitlabprob9$ git add hello.c
ahlanah@MSI:~/gitlabprob9$ git commit -m "First version"
[master (root-commit) 1e84b7d] First version
 1 file changed, 5 insertions(+)
 create mode 100644 hello.c
ahlanah@MSI:~/gitlabprob9$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        hello
        hello.o

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

```
ahlanah@MSI:~/gitlabprob9$ cat > .gitignore << 'EOF'
> *.o
> *.obj
> *.exe
> *.out
> hello
>
> build/
> bin/
> EOF
ahlanah@MSI:~/gitlabprob9$ git add .gitignore
ahlanah@MSI:~/gitlabprob9$ git commit -m "Add .gitignore for binaries"
[master 8804876] Add .gitignore for binaries
 1 file changed, 8 insertions(+)
 create mode 100644 .gitignore
ahlanah@MSI:~/gitlabprob9$ git status
On branch master
nothing to commit, working tree clean
ahlanah@MSI:~/gitlabprob9$ |
```

```
ahlanah@MSI:~/gitlabprob9$ sed -i 's/Hello, World!/Hello, World again!/' hello.c
ahlanah@MSI:~/gitlabprob9$ gcc hello.c -o hello
ahlanah@MSI:~/gitlabprob9$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   hello.c

no changes added to commit (use "git add" and/or "git commit -a")
ahlanah@MSI:~/gitlabprob9$ git status -s
 M hello.c
ahlanah@MSI:~/gitlabprob9$ git add hello.c
ahlanah@MSI:~/gitlabprob9$ git commit -m "Second version"
[master 8c5e394] Second version
 1 file changed, 1 insertion(+), 1 deletion(-)
ahlanah@MSI:~/gitlabprob9$ git status
On branch master
nothing to commit, working tree clean
ahlanah@MSI:~/gitlabprob9$ |
```