

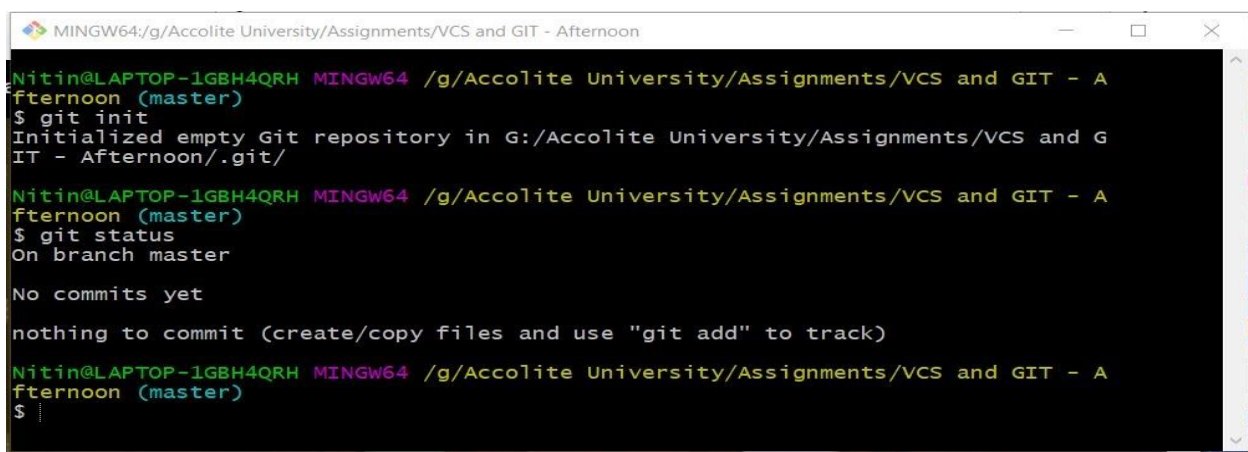
Spring Au 2021 - February

Version Control System And GIT - Afternoon

Name - Nitin Kaushik

Git - <https://github.com/nitinkaushik10/SAU-Feb-Batch-2/>

1. Git init command



```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - A
fternoon (master)
$ git init
Initialized empty Git repository in G:/Accolite University/Assignments/VCS and G
IT - Afternoon/.git/

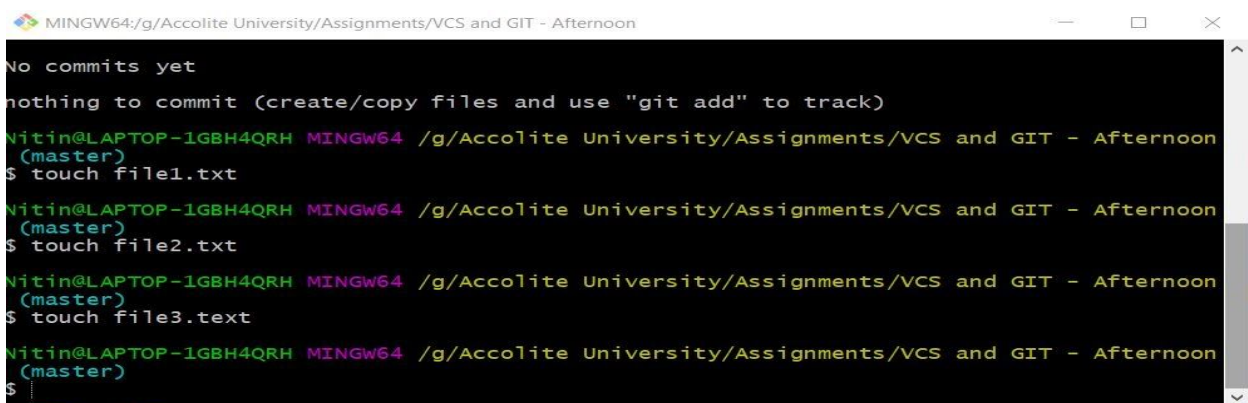
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - A
fternoon (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - A
fternoon (master)
$
```

2. Touch command to create file



```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
No commits yet
nothing to commit (create/copy files and use "git add" to track)

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ touch file1.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ touch file2.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ touch file3.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

3. Add file to staged

```
file3.txt

nothing added to commit but untracked files present (use "git add" to track)
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git add -A

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file1.txt
        new file:   file2.txt
        new file:   file3.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

4. Commit the file to unmodified

```
(master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file1.txt
        new file:   file2.txt
        new file:   file3.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git commit -m "file added to unmodified "
[master (root-commit) 7ca5cb3] file added to unmodified
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
create mode 100644 file2.txt
create mode 100644 file3.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

5. Git checkout command to retrieve last commit

```
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ 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:   file1.txt

no changes added to commit (use "git add" and/or "git commit -a")

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git checkout file1.txt
Updated 1 path from the index

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

6. Git log command

```
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git status
On branch master
nothing to commit, working tree clean

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git log
commit 7ca5cb3a2d0c82c73e72a9204939cf6c19f0709b (HEAD -> master)
Author: nitin125 <80nitinkaushik@gmail.com>
Date: Thu Feb 11 21:56:18 2021 +0530

    file added to unmodified

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

7. Git diff command track the difference between the changes made on a file

```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
$ 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:   file1.txt

no changes added to commit (use "git add" and/or "git commit -a")

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git diff
diff --git a/file1.txt b/file1.txt
index 456bd1c..6e78cc1 100644
--- a/file1.txt
+++ b/file1.txt
@@ -1,1 @@
-checking the git diff
\ No newline at end of file
+checking the git diff command
\ No newline at end of file

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```

8. Making the new branch

```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch master_branch1

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch
* master
  master_branch1

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch master_branch2

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch
* master
  master_branch1
  master_branch2

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$
```


9. Git switching the branch using checkout command

```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch master_branch2

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git branch
* master
  master_branch1
  master_branch2

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git checkout master_branch1
Switched to branch 'master_branch1'
0       delete.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master_branch1)
$ git checkout master
Switched to branch 'master'
0       delete.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ |
```

10. Merging the master and new branch

```
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git status
On branch master
nothing to commit, working tree clean

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git merge master_branch1
Merge made by the 'recursive' strategy.
 file4.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file4.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ ls
file1.txt file2.txt file3.txt file4.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ |
```

11. Setup the remote repository

```
MINGW64:/g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git status
On branch master
nothing to commit, working tree clean

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git merge master_branch1
Merge made by the 'recursive' strategy.
 file4.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file4.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ ls
file1.txt file2.txt file3.txt file4.txt

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git remote add origin git@github.com:nitinkaushik10/Learning-Git.git
```

12. Push file to remote Repository

```
Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git remote add origin git@github.com:nitinkaushik10/Learning-Git.git

Nitin@LAPTOP-1GBH4QRH MINGW64 /g/Accolite University/Assignments/VCS and GIT - Afternoon
(master)
$ git push -u origin master
The authenticity of host 'github.com (13.234.176.102)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWGl7E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com,13.234.176.102' (RSA) to the list of known hosts.
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 4 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (13/13), 1.14 KiB | 97.00 KiB/s, done.
Total 13 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), done.
To github.com:nitinkaushik10/Learning-Git.git
 * [new branch]      master -> master
branch 'master' set up to track remote branch 'master' from 'origin'.
```