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## WEEK 8 - GIT

GITHUB: <https://github.com/Narine1234/>

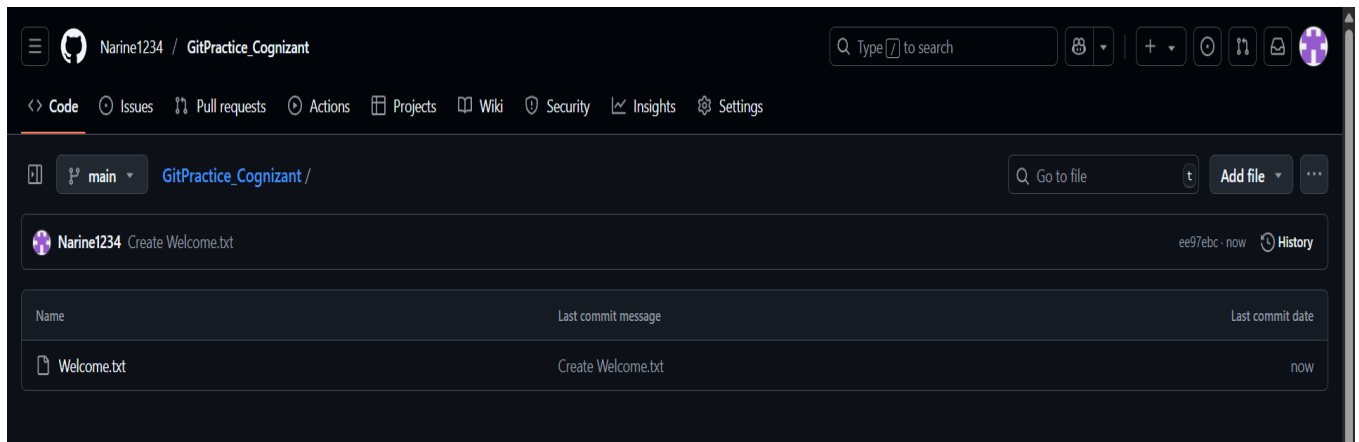
Task 1 : GitLab config using Gitbash

```
Roshan@Roshan2004 MINGW64 ~
$ git config --global user.email sunilroshan29@gmail.com
Roshan@Roshan2004 MINGW64 ~
$ notepad++ --help
bash: notepad++: Command not found
Roshan@Roshan2004 MINGW64 ~
$ git config --global core.editor
Roshan@Roshan2004 MINGW64 ~
$ git config --global core.editor "notepad"
Roshan@Roshan2004 MINGW64 ~
$ git config --global core.editor notepad
Roshan@Roshan2004 MINGW64 ~
$ mkdir GitDemo
Roshan@Roshan2004 MINGW64 ~
$ cd GitDemo
Roshan@Roshan2004 MINGW64 ~/GitDemo
$ git init
Initialized empty Git repository in C:/Users/Roshan/GitDemo/.git/
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ ls -la
./  ../ .git/
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ echo "Welcome to GitDemo - Roshan" > welcome.txt
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ cat welcome.txt
Welcome to GitDemo - Roshan
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ AC
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git commit
hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/Roshan/GitDemo/.git/COMMIT_EDITMSG to DOS format...
dos2unix: converting file C:/Users/Roshan/GitDemo/.git/COMMIT_EDITMSG to Unix format...
[master (root-commit) 55d0fb9] Add welcome.txt Initial commit for GitDemo lab
1 file changed, 1 insertion(+)
 create mode 100644 welcome.txt
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git remote add origin https://github.com/sunilroshan/GitDemo.git
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 268 bytes | 57.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/sunilroshan/GitDemo.git
 * [new branch] master -> master
branch 'master' set up to track 'origin/master'.
```



## Task 2 : Create a “.log” file and a log folder in the working directory of Git

```
MINGW64:/c/Users/Roshan/GitDemo
> echo "Log folder file > log/test.txt"
bash: log/test.txt: No such file or directory

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ AC

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ echo "This is a log file" > debug.log

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ mkdir log

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ echo "Log folder file" > log/test.txt

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ ls
debug.log  log/  welcome.txt

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ ls log
test.txt

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ notepad .gitignore


Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git add .gitignore

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   .gitignore


Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git commit -m "Add .gitignore to ignore .log files and log folder"
[master 0372e5d] Add .gitignore to ignore .log files and log folder
1 file changed, 2 insertions(+)
create mode 100644 .gitignore

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 307 bytes | 307.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/sunilroshan/GitDemo.git
55d0fb9..0372e5d master -> master
```

 .gitignore

Add .gitignore to ignore .log files and log f...

4 minutes ago




 welcome.txt

Add welcome.txt

27 minutes ago





## Task 3 : Git Branching and Merging

```
MINGW64 ~/C:/Users/Roshan/GitDemo
Roshan@Roshan2004 MINGW64 ~
$ git checkout -b GitNewBranch
fatal: not a git repository (or any of the parent directories): .git
Roshan@Roshan2004 MINGW64 ~
$ cd ~/GitDemo
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git checkout -b GitNewBranch
Switched to a new branch 'GitNewBranch'
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ git branch
* GitNewBranch
  master
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ echo "This is a feature added on GitNewBranch" > feature.txt
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ git add feature.txt
warning: in the working copy of 'feature.txt', LF will be replaced by CRLF the n
ext time git touches it
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ git commit -m "Add Feature.txt on GitNewBranch"
[GitNewBranch 7dac526] Add Feature.txt on GitNewBranch
1 file changed, 1 insertion(+)
 create mode 100644 feature.txt
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ AC
Roshan@Roshan2004 MINGW64 ~/GitDemo (GitNewBranch)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git diff master GitNewBranch
diff --git a/feature.txt b/feature.txt
new file mode 100644
index 0000000..565930b
--- /dev/null
+++ b/feature.txt
@@ -0,0 +1 @@
+This is a feature added on GitNewBranch
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git merge GitNewBranch
Updating 0372e5d..7dac526
Fast-forward
 feature.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 feature.txt
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* 7dac526 (HEAD, GitNewBranch) Add Feature.txt on GitNewBranch
= 0372e5d (origin/master) Add .gitignore to ignore .log files and log folder
= 55d0fb9 Add welcome.txt Initial commit for GitDemo lab
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was 7dac526).
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
nothing to commit, working tree clean
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ AC
Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 366 bytes | 366.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/sunilroshan/gitdemo.git
  0372e5d..7dac526 master -> master
```

 .gitignore	Add .gitignore to ignore .log files and log f...	21 minutes ago
 feature.txt	Add feature.txt on GitNewBranch	8 minutes ago
 welcome.txt	Add welcome.txt	44 minutes ago

### Task 4 : Implement conflict resolution when multiple users are updating trunk

[illegible]

 .gitignore	Ignore backup files	2 minutes ago
 feature.txt	Add feature.txt on GitNewBranch	42 minutes ago
 hello.xml	Resolve merge conflict in hello.xml	5 minutes ago
 welcome.txt	Add welcome.txt	1 hour ago

## Task 5 : Execute steps involving clean up and push back to remote Git

```
Roshan@Roshan2004 MINGW64 ~
$ cd ~/GitDemo

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git add .
warning: in the working copy of 'log/test.txt', LF will be replaced by CRLF the next time Git touches it






Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ AC

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git commit -m "Add/update log/test.txt for Task 5"
[master a531de7] Add/update log/test.txt for Task 5
1 file changed, 1 insertion(+)
create mode 100644 log/test.txt

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git pull --rebase origin master
From https://github.com/sunilroshan/GitDemo
* branch      master      -> FETCH_HEAD
Current branch master is up to date.

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 347 bytes | 347.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/sunilroshan/GitDemo.git
b1f4ba0..a531de7  master -> master

Roshan@Roshan2004 MINGW64 ~/GitDemo (master)
$ git status -sb
## master...origin/master
```

 log	Add/update log/test.txt for Task 5	2 minutes ago
 .gitignore	Ignore backup files	19 minutes ago
 feature.txt	Add feature.txt on GitNewBranch	1 hour ago
 hello.xml	Resolve merge conflict in hello.xml	22 minutes ago
 welcome.txt	Add welcome.txt	1 hour ago