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**Assignment: Git Hands-on Practice**

**Task 1: Configure Git**

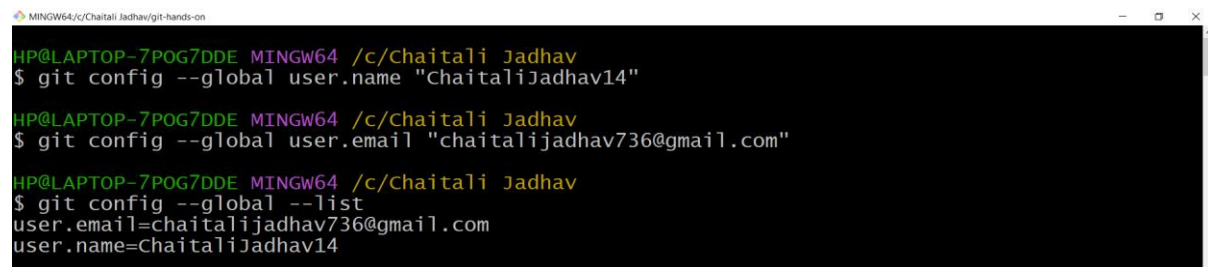
1. Set your username and email in Git.

2. Verify the configuration.

```
$ git config --global user.name "ChaitaliJadhav14"
```

```
$ git config --global user.email chaitaliijadhav736@gmail.com
```

```
$ git config list
```



```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ git config --global user.name "ChaitaliJadhav14"

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ git config --global user.email "chaitaliijadhav736@gmail.com"

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ git config --global --list
user.email=chaitaliijadhav736@gmail.com
user.name=ChaitaliJadhav14
```

**Task 2: Initialize a Local Repository**

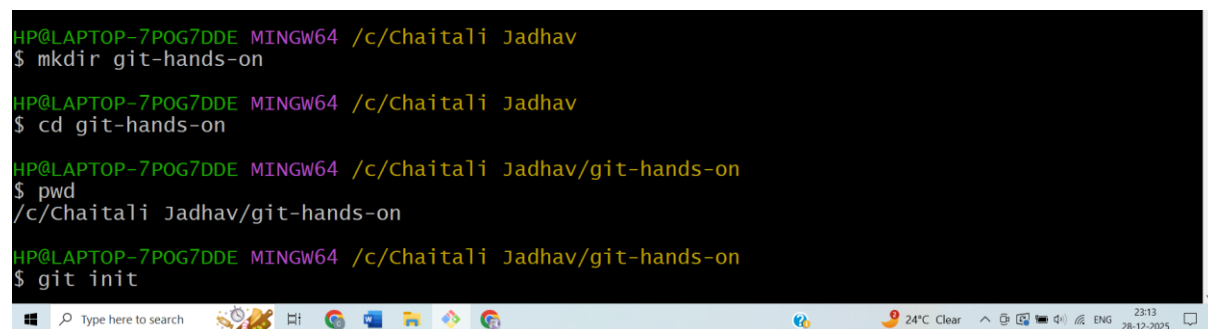
1. Create a new folder named `git-hands-on`.

2. Initialize it as a Git repository.

3. Check the repository status.

```
$ git init
```

```
$ git status
```



```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ mkdir git-hands-on

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ cd git-hands-on

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on
$ pwd
/c/Chaitali Jadhav/git-hands-on

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on
$ git init
```

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on
$ git init
Initialized empty Git repository in C:/Chaitali Jadhav/git-hands-on/.git/

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git status
On branch master

No commits yet

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

Task 3: Create and Track Files

1. Create a file named `documentation.txt`.
2. Add a short project description inside it.
3. Check file status.
4. Stage the file.
5. Commit the changes with an appropriate message.

\$ git status

\$ git add documentation.txt

\$ git commit -m "Add initial documentation"

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on
$ git init
Initialized empty Git repository in C:/Chaitali Jadhav/git-hands-on/.git/

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git status
On branch master

No commits yet

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

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git add documentation.txt
fatal: pathspec 'documentation.txt' did not match any files

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git add documentation.txt
fatal: pathspec 'documentation.txt' did not match any files

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git add documentation.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git commit -m "Add initial documentation"
[master (root-commit) 182f5ec] Add initial documentation
1 file changed, 8 insertions(+)
```

Task 4: Modify and Commit Changes

1. Edit `documentation.txt` and add one more line.
2. View the differences between working directory and staging area.
3. Stage and commit the changes.

\$ git diff

\$ git add documentation.txt

```
MINGW64/c/Chaitali Jadhav/git-hands-on
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git diff
diff --git a/documentation.txt b/documentation.txt
index 5521763..cbd5b5e 100644
--- a/documentation.txt
+++ b/documentation.txt
@@ -6,3 +6,17 @@ branching, merging, and working with remote repositories on Git
Hub.

The goal of this project is to understand version control
and collaboration using Git.
+
+Git Commands Used in This Project
+
+git init          - Initialize a new Git repository
+git status        - Check file status
+git add           - Stage changes
+git commit        - Save changes to repository
+git branch        - Create branches
+git checkout      - Switch branches
+git merge         - Merge branches
+git push          - Upload code to GitHub
+git clone         - Download repository.
+
+
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
```

Task 5: View Commit History

1. View the complete commit history.
2. View commit history in one-line format.

```
MINGW64/c/Chaitali Jadhav/git-hands-on
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git add documentation.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git commit -m "Update documentation with Git Commands"
[master 15f38e3] Update documentation with Git Commands
1 file changed, 14 insertions(+)

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git log
commit 15f38e3d97bb6edebbb4bc8084a874c08e389ba08 (HEAD -> master)
Author: ChaitaliJadhav14 <chaitali.jadhav736@gmail.com>
Date:   Sun Dec 28 22:15:59 2025 +0530

    Update documentation with Git Commands

commit 182f5ecce305519186fbf7b740da7f7c04b6214d
Author: ChaitaliJadhav14 <chaitali.jadhav736@gmail.com>
Date:   Sun Dec 28 22:11:52 2025 +0530

    Add initial documentation

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git log --oneline
15f38e3 (HEAD -> master) Update documentation with Git Commands
182f5ec Add initial documentation
```

Task 6: Create and Work with Branches

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git branch feature-1

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git checkout feature-1
Switched to branch 'feature-1'

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (feature-1)
$ git add feature.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (feature-1)
$ git commit -m "Add feature-1 file"
[feature-1 cc3be97] Add feature-1 file
1 file changed, 1 insertion(+)
create mode 100644 feature.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (feature-1)
$ git checkout master
Switched to branch 'master'

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git merge feature-1
Updating 15f38e3..cc3be97
Fast-forward
 feature.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 feature.txt
```

Task 7: Merge Branches

1. Merge `feature-1` branch into `main`.
2. Verify the merge using commit history.

```
$ git merge feature-1
```

```
$ git log
```

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (feature-1)
$ git checkout master
Switched to branch 'master'

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git merge feature-1
Updating 15f38e3..cc3be97
Fast-forward
 feature.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 feature.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git log --oneline --all
fatal: unrecognized argument: --all

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git log --oneline --all
cc3be97 (HEAD -> master, feature-1) Add feature-1 file
15f38e3 Update documentation with Git Commands
182f5ec Add initial documentation

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git remote add origin https://github.com/ChaitaliJadhav14/git-hands-on.git

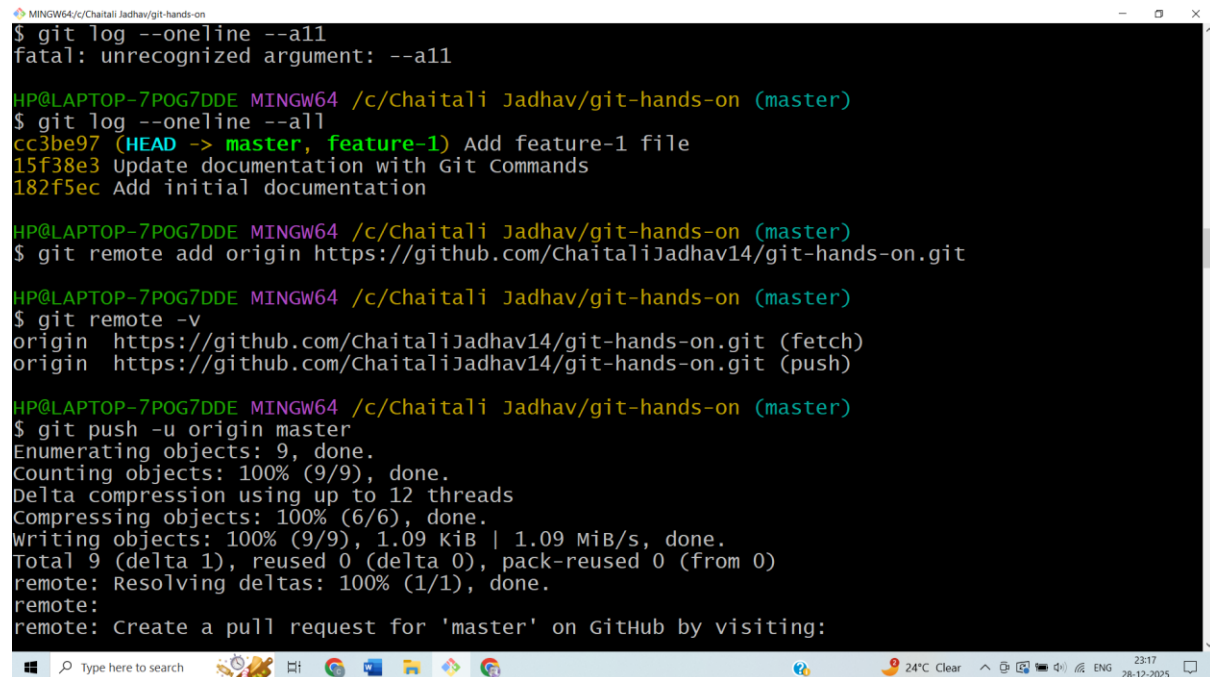
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git remote -v
```

Task 8: Connect to a Remote Repository

1. Create a new repository on GitHub.
2. Add the remote repository URL to your local repo.
3. Verify the remote connection.

\$ git remote add origin <https://github.com/ChaitaliJadhav14/git-hands-on.git>

\$ git remote -v

A terminal window titled 'MINGW64/c/Chaitali Jadhav/git-hands-on' showing the following commands and output:

```
$ git log --oneline --all
fatal: unrecognized argument: --all

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git log --oneline --all
cc3be97 (HEAD -> master, feature-1) Add feature-1 file
15f38e3 Update documentation with Git Commands
182f5ec Add initial documentation

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git remote add origin https://github.com/ChaitaliJadhav14/git-hands-on.git

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git remote -v
origin https://github.com/ChaitaliJadhav14/git-hands-on.git (fetch)
origin https://github.com/ChaitaliJadhav14/git-hands-on.git (push)

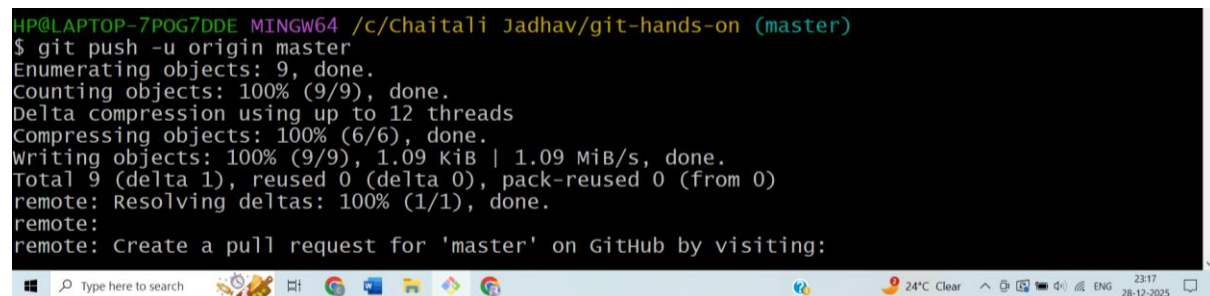
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git push -u origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 1.09 KiB | 1.09 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
```

Task 9: Push Code to GitHub

1. Push the `main` branch to GitHub.
2. Verify files on GitHub.

\$ git remote add origin <https://github.com/ChaitaliJadhav14/git-hands-on.git>

\$ git push -u origin master

A terminal window titled 'MINGW64/c/Chaitali Jadhav/git-hands-on' showing the following command and output:

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git push -u origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 1.09 KiB | 1.09 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
```

Task 10: Clone a Repository

1. Clone the same GitHub repository into a different folder.
2. Verify the cloned content.

```
$ git clone https://github.com/ChaitaliJadhav14/git-hands-on.git  
$ cd Assign
```

```
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ git clone https://github.com/ChaitaliJadhav14/git-hands-on.git  
Cloning into 'git-hands-on'...  
remote: Enumerating objects: 15, done.  
remote: Counting objects: 100% (15/15), done.  
remote: Compressing objects: 100% (10/10), done.  
remote: Total 15 (delta 1), reused 11 (delta 1), pack-reused 0 (from 0)  
Receiving objects: 100% (15/15), done.  
Resolving deltas: 100% (1/1), done.  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ |
```

Task 11: Undo Changes

1. Make a change in `documentation.txt` but do not commit.
2. Discard the changes.
3. Verify the file status.

```
$ git checkout master  
$ cd -  
$ git status  
$ git add -A  
$ git status
```

```
MINGW64/c/Chaitali Jadhav/git-hands-on  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ git checkout master  
Already on 'master'  
Your branch is up to date with 'origin/master'.  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ cd -  
/c/Chaitali Jadhav  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav  
$ cd -  
/c/Chaitali Jadhav/git-hands-on  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ cd -  
/c/Chaitali Jadhav  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav  
$ git status  
fatal: not a git repository (or any of the parent directories): .git  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav  
$ cd -  
/c/Chaitali Jadhav/git-hands-on  
  
HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)  
$ git status
```

```

MINGW64/c/Chaitali Jadhav/git-hands-on
$ cd -
/c/Chaitali Jadhav

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ git status
fatal: not a git repository (or any of the parent directories): .git

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav
$ cd -
/c/Chaitali Jadhav/git-hands-on

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git add -A

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

```

Task 12: Remove Files9

1. Delete `feature.txt` using Git.
2. Commit the deletion.

```

$ git rm feature.txt
$ git commit -m "feature file delete"

```

```

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git rm feature
fatal: pathspec 'feature' did not match any files

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git rm feature.txt
rm 'feature.txt'

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ git commit -m "feature file delete"
[master bccfa24] feature file delete
1 file changed, 1 deletion(-)
delete mode 100644 feature.txt

HP@LAPTOP-7POG7DDE MINGW64 /c/Chaitali Jadhav/git-hands-on (master)
$ |

```