**Exercise 1 : Git-HOL**

**Practicing with Git commands like git init, git status, git add, git commit, git push, and git pull.**

**Step 1: Setup your machine with Git Configuration**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ git version**

git version 2.43.0.windows.1

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ git config --global user.name "Jannat S"**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ git config --global user.email "thevisualizm@gmail.com"**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ git config --global --list**

user.name=Jannat S

[user.email=thevisualizm@gmail.com](mailto:user.email=thevisualizm@gmail.com)

**Step 2: Integrate notepad to Git and make it a default editor**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ notepad**

**Step 3: Add a file to source code repository**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ git init GitDemo**

Initialized empty Git repository in C:/Users/arsha/GitDemo/.git/

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ ls -al**

total **15554**

drwxr-xr-x 1 arsha 197609 0 Aug 3 13:48 ./

drwxr-xr-x 1 arsha 197609 0 Jun 4 06:56 ../

drwxr-xr-x 1 arsha 197609 0 Mar 11 2024 .android/

drwxr-xr-x 1 arsha 197609 0 Mar 17 12:52 .arduinoIDE/

-rw-r--r-- 1 arsha 197609 285 Jan 17 2024 .bash\_history

drwxr-xr-x 1 arsha 197609 0 Sep 5 2024 .config/

drwxr-xr-x 1 arsha 197609 0 Jul 8 07:53 .eclipse/

-rw-r--r-- 1 arsha 197609 16 Mar 1 2024 .emulator\_console\_auth\_token

..........

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ echo "Welcome to the version control" >> welcome.txt**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ ls -al**

total **15555**

drwxr-xr-x 1 arsha 197609 0 Aug 3 13:53 ./

drwxr-xr-x 1 arsha 197609 0 Jun 4 06:56 ../

drwxr-xr-x 1 arsha 197609 0 Mar 11 2024 .android/

drwxr-xr-x 1 arsha 197609 0 Mar 17 12:52 .arduinoIDE/

-rw-r--r-- 1 arsha 197609 285 Jan 17 2024 .bash\_history

drwxr-xr-x 1 arsha 197609 0 Sep 5 2024 .config/

drwxr-xr-x 1 arsha 197609 0 Jul 8 07:53 .eclipse/

-rw-r--r-- 1 arsha 197609 16 Mar 1 2024 .emulator\_console\_auth\_token

drwxr-xr-x 1 arsha 197609 0 Mar 21 2024 .expo/

..........

-rw-r--r-- 1 arsha 197609 31 Aug 3 13:53 **welcome.txt**

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ cat welcome.txt**

Welcome to the version control

arsha@DESKTOP-8CH3EHJ MINGW64 ~

**$ cd GitDemo/**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ mv ../welcome.txt .**

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git status**

On branch main

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)

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git add welcome.txt**

warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git commit**

hint: Waiting for your editor to close the file... unix2dos: converting file C:/Users/arsha/GitDemo/.git/COMMIT\_EDITMSG to DOS format...

dos2unix: converting file C:/Users/arsha/GitDemo/.git/COMMIT\_EDITMSG to Unix format...

[main (root-commit) cd90a5f] Added welcome.txt file

1 file changed, 1 insertion(+)

create mode 100644 welcome.txt

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git status**

On branch main

nothing to commit, working tree clean

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git remote add origin** [**https://gitlab.com/jannat-s/gitdemo.git**](https://gitlab.com/jannat-s/gitdemo.git)

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git remote -v**

origin https://gitlab.com/jannat-s/gitdemo.git (fetch)

origin https://gitlab.com/jannat-s/gitdemo.git (push)

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git pull origin main --allow-unrelated-histories**

remote: Enumerating objects: 3, done.

remote: Counting objects: 100% (3/3), done.

remote: Compressing objects: 100% (2/2), done.

remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Unpacking objects: 100% (3/3), 2.73 KiB | 310.00 KiB/s, done.

From https://gitlab.com/jannat-s/gitdemo

\* branch main -> FETCH\_HEAD

\* [new branch] main -> origin/main

Merge made by the 'ort' strategy.

README.md | 93 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

1 file changed, 93 insertions(+)

create mode 100644 README.md

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git push -u origin main**

Enumerating objects: 6, done.

Counting objects: 100% (6/6), done.

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (5/5), 562 bytes | 562.00 KiB/s, done.

Total 5 (delta 0), reused 0 (delta 0), pack-reused 0

To https://gitlab.com/jannat-s/gitdemo.git

0295a4a..78ad7a6 main -> main

branch 'main' set up to track 'origin/main'.

arsha@DESKTOP-8CH3EHJ MINGW64 ~/GitDemo (main)

**$ git log –oneline**

78ad7a6 (HEAD -> main, origin/main) Merge branch 'main' of https://gitlab.com/jannat-s/gitdemo

0295a4a Initial commit

cd90a5f Added welcome.txt file