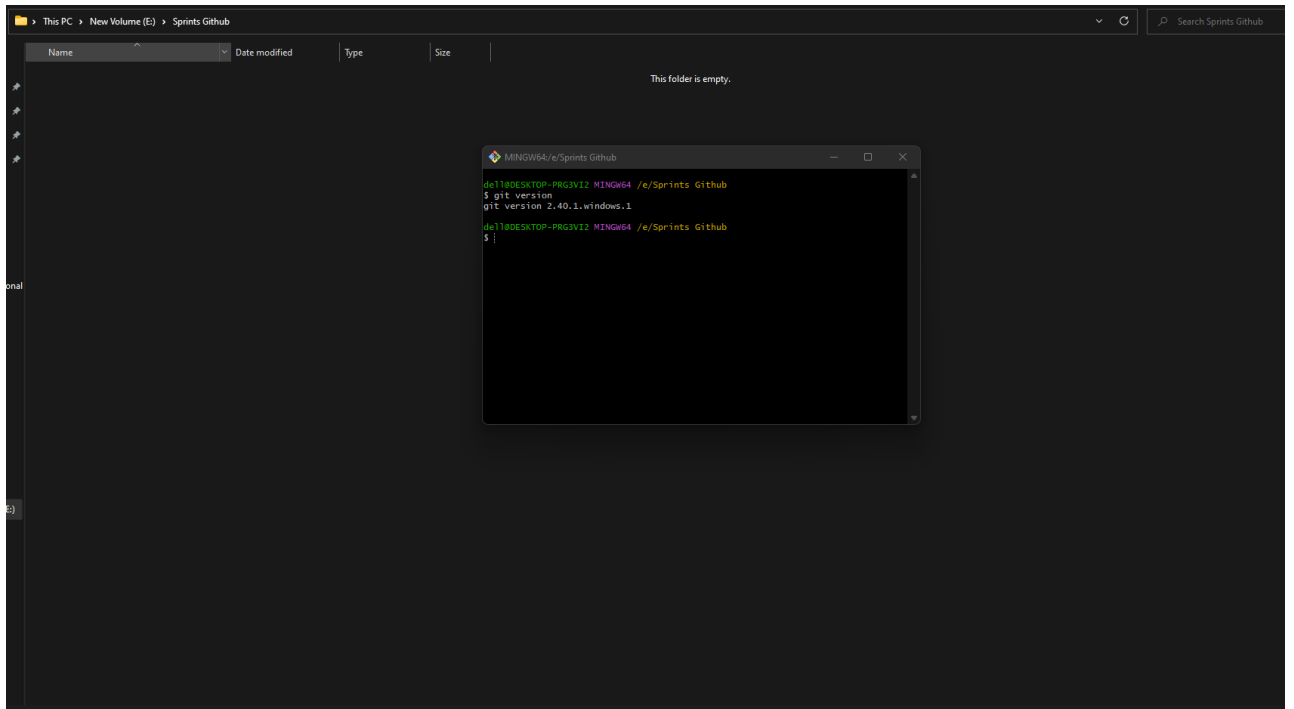
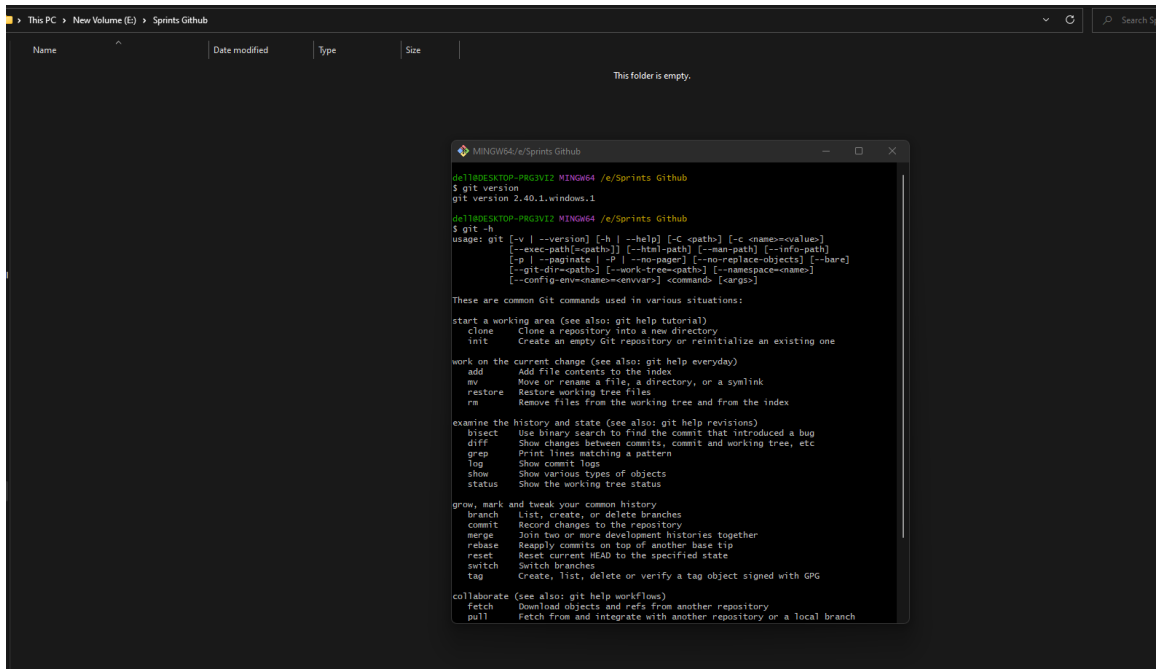


## 01 screenshot of the CLI shows the current Git version



## 02 screenshot of the CLI showing the Git Help results



The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > New Volume (E:) > Sprints Github'. The main area of the window displays 'This folder is empty.' Below this, a terminal window titled 'MINGW64/e/Sprints Github' is open, showing the following commands and their outputs:

```
del1@DESKTOP-PRG3V12 MINGW64 /e/Sprints Github
$ git version
git version 2.40.1.windows.1

del1@DESKTOP-PRG3V12 MINGW64 /e/Sprints Github
$ git --h
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
          [--exec-path<path>] [--html-path] [--man-path] [--info-path]
          [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
          [--git-dir<path>] [--work-tree<path>] [--namespace=<name>]
          [--config-env=<name>=<envvar>] <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

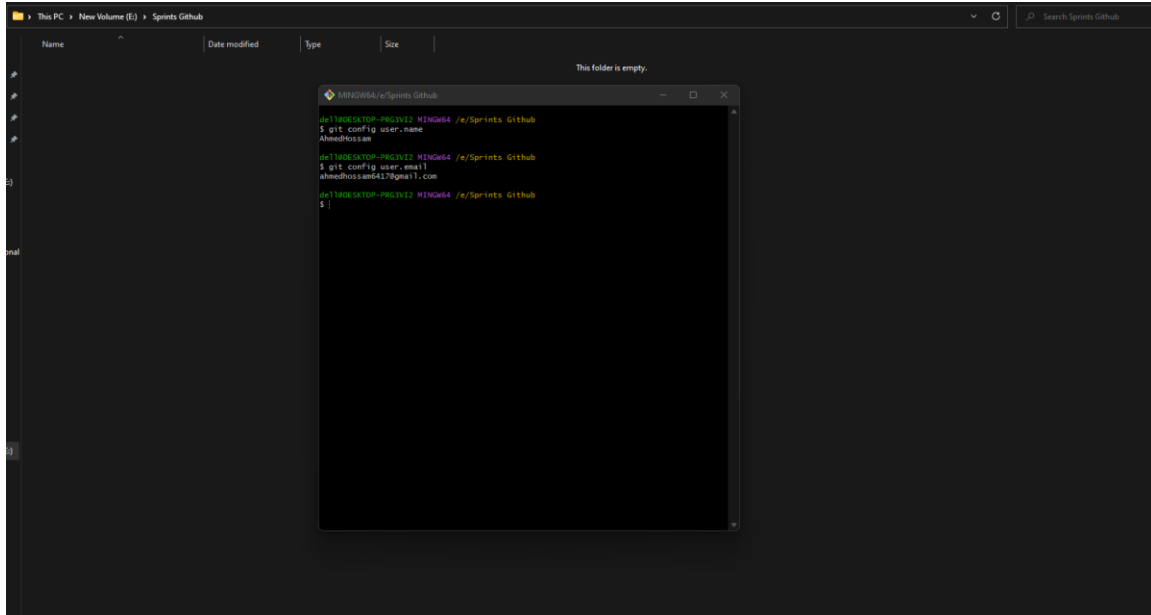
work on the current changes (see also: git help everyday)
  add        Add file contents to the index
  mv         Move or rename a file, a directory, or a symlink
  restore    Restore working tree files
  rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  diff       Show changes between commits, commit and working tree, etc
  grep       Print lines matching a pattern
  log        Show commit logs
  show       Show various types of objects
  status     Show the working tree status

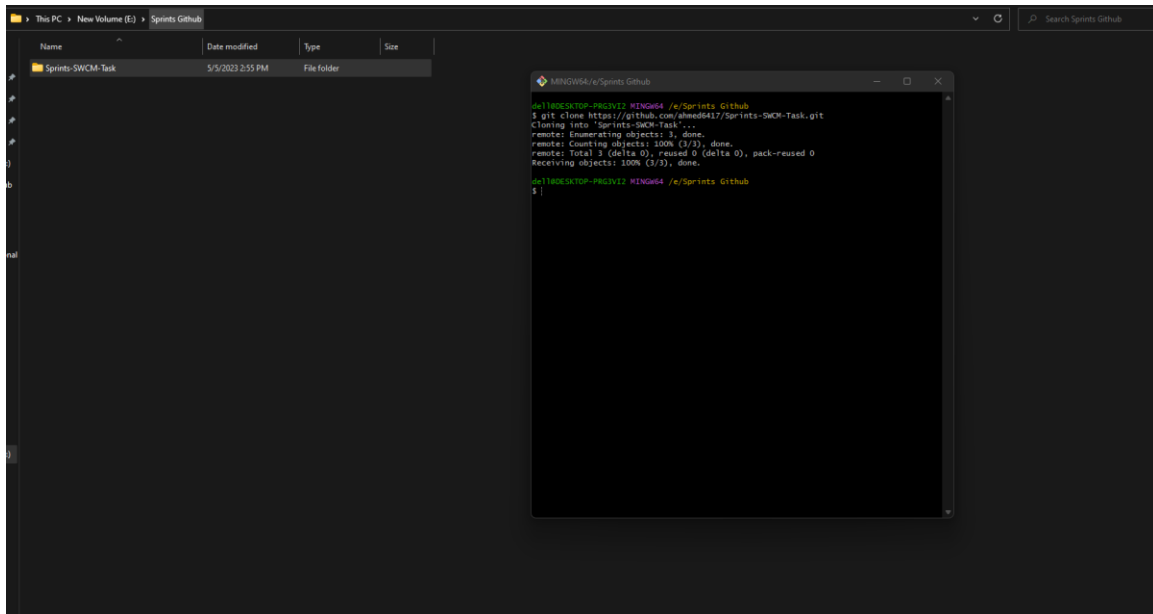
grow, mark and tweak your common history
  branch     List, create, or delete branches
  commit     Record changes to the repository
  merge      Join two or more development histories together
  rebase     Reapply commits on top of another base tip
  reset      Reset current HEAD to the specified state
  switch     Switch branches
  tag        Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
  fetch      Download objects and refs from another repository
  pull       Fetch from and integrate with another repository or a local branch
```

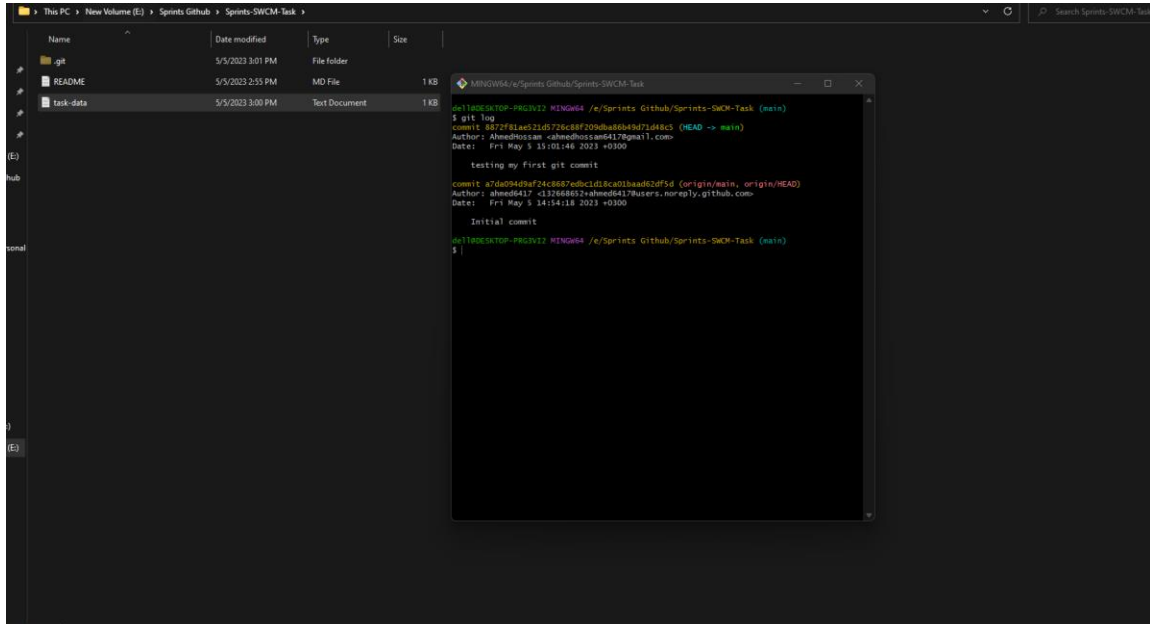
### 03 screenshot of the CLI showing the configured user name and email showing



## 04 screenshot of the CLI showing the cloning command result



## 05 screenshot of the CLI showing the commit history



The screenshot shows a Windows File Explorer window in the background, displaying the contents of a directory named 'Sprints GitHub > Sprints-SWCM-Task'. The directory contains a '.git' folder, a 'README' file, and a 'task-data' file. Overlaid on the File Explorer is a terminal window titled 'MINGW64 /c/Sprints GitHub/Sprints-SWCM-Task'. The terminal shows the output of the 'git log' command, displaying the commit history. The output includes the commit hash, the commit message, the author's name and email, and the date and time of the commit.

```
MINGW64 /c/Sprints GitHub/Sprints-SWCM-Task (main)
$ git log
commit 8d22f81ad21d726c08f7008a0b0c9af7d8c3 (HEAD -> main)
Author: AhmedHussain <ahmedhussain6417@gmail.com>
Date: Fri May 5 15:01:46 2023 +0300

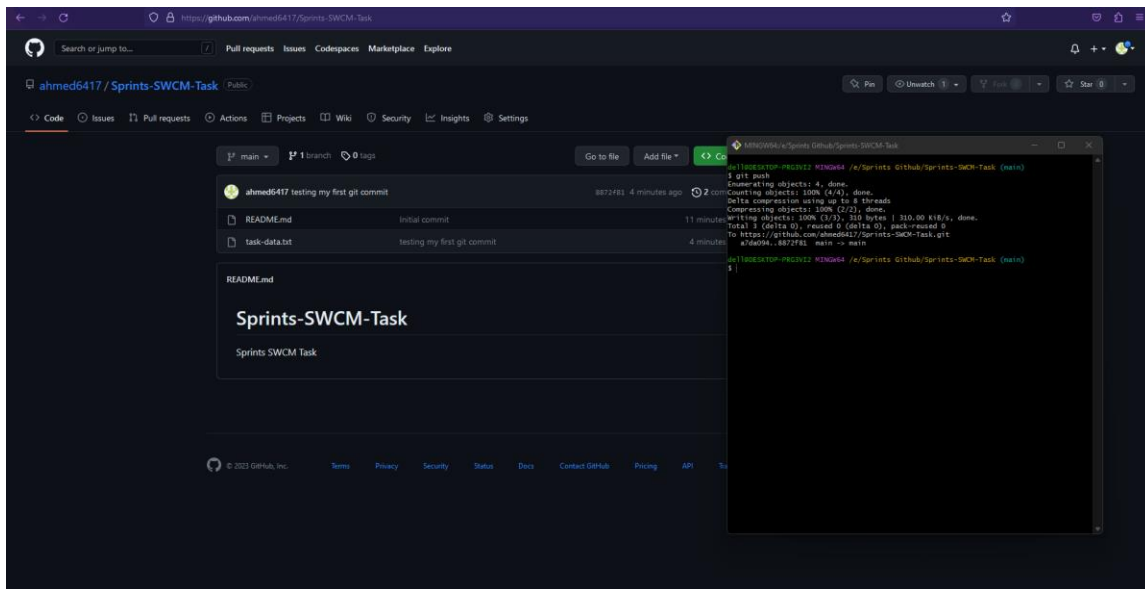
    testing my first git commit

commit a7d6094d9af24c8687edbc1d18ca01baad62df5d (origin/main, origin/HEAD)
Author: ahmed6417 <132868662+ahmed6417@users.noreply.github.com>
Date: Fri May 5 14:14:18 2023 +0300

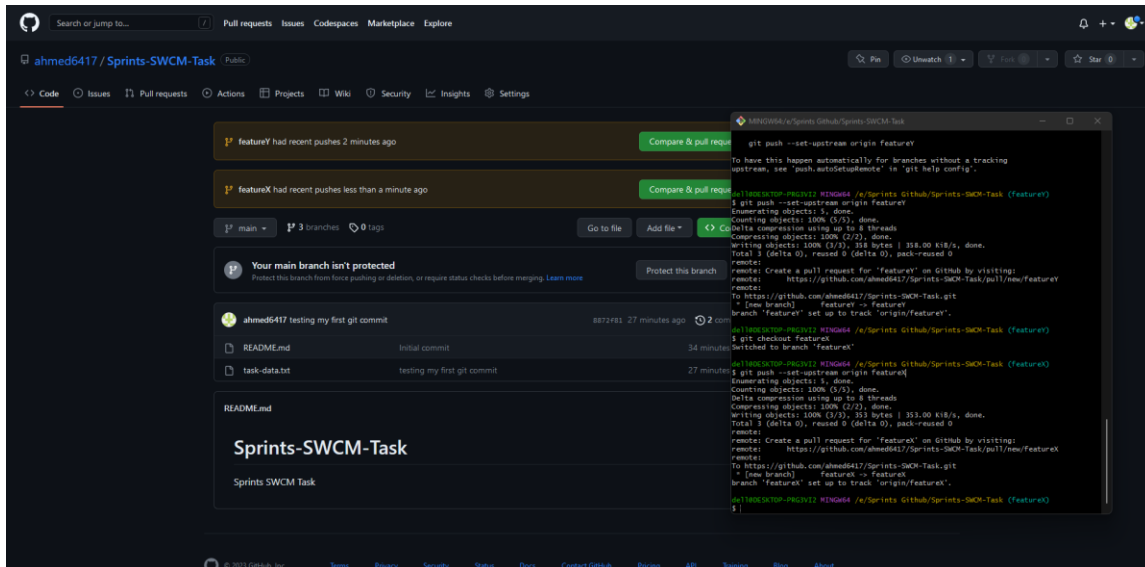
    Initial commit

MINGW64 /c/Sprints GitHub/Sprints-SWCM-Task (main)
$
```

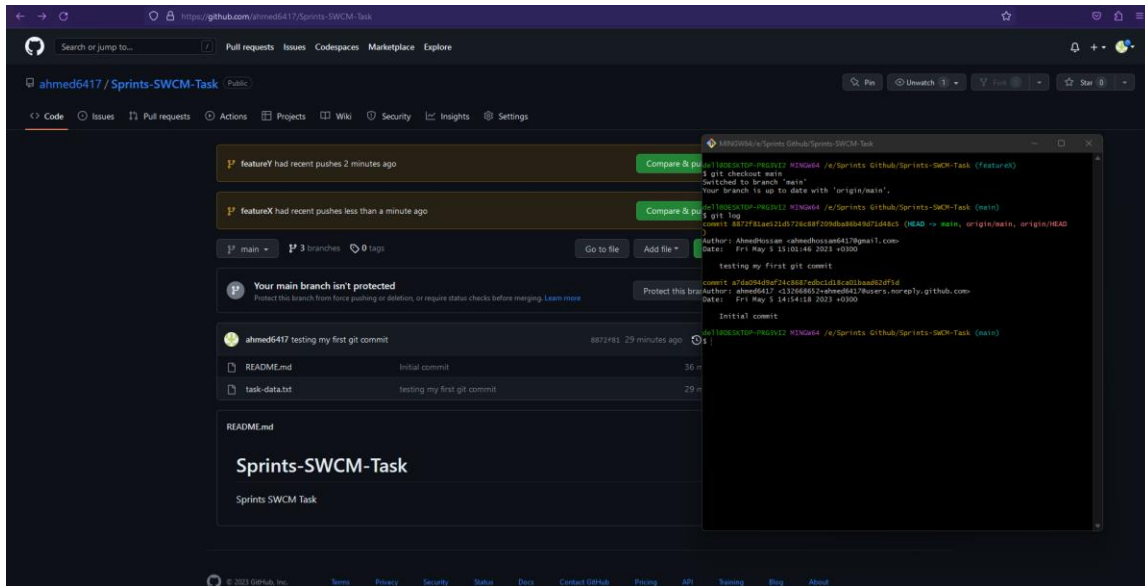
## 06 screenshot of the CLI shows the push command results



## 07 screenshot of the CLI shows the push command results for featureX and feature



08 screenshot of the CLI shows the commit history till featureX and featureY pushing





## 09 a screenshot of the CLI after merging the featureX branch

The screenshot displays the GitHub web interface for the repository 'ahmed6417/Sprints-SWCM-Task'. The main content area shows the repository's file structure, including 'README.md' and 'task-data.txt'. A terminal window is open on the right, showing the following commands and output:

```
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
$ git log
commit 5872f81ae21d5726c8ff209b049d1d46c2 (HEAD -> main, origin/main, origin/HEAD)
Author: ahmedhossam <ahmedhossam6417@gmail.com>
Date: Fri May 5 15:01:46 2023 +0300

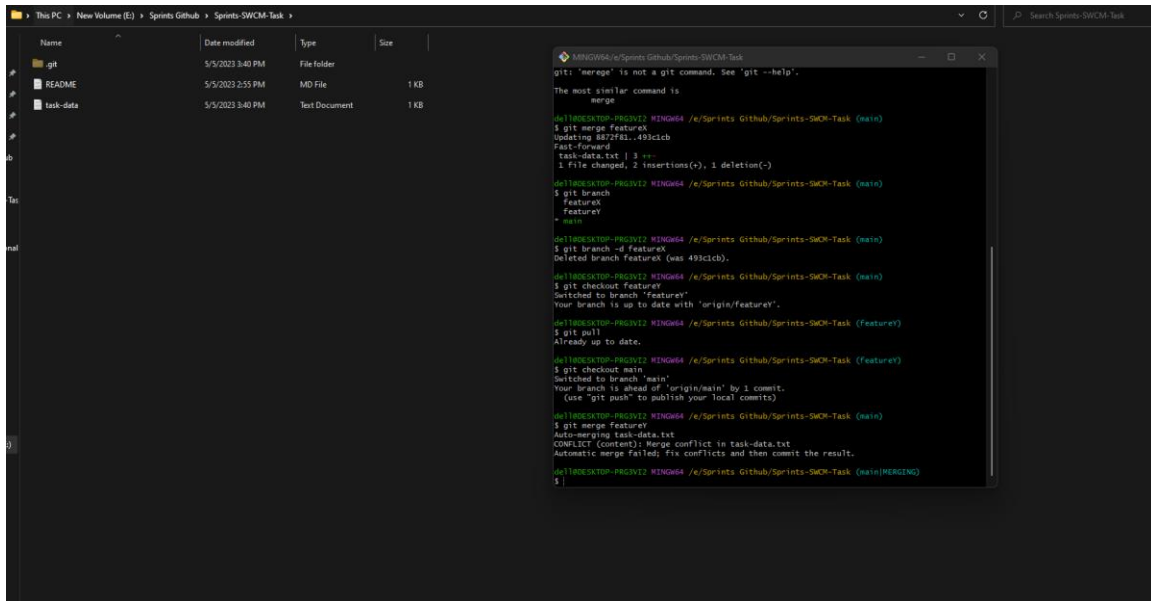
    testing my first git commit

$ git branch
* main
$ git merge featureX
git: 'merge' is not a git command. See 'git --help'.

The most similar command is
    merge

$ git merge featureX
merging 8072f81..4931c1b
Fast-forward
 task-data.txt | 3 +-
 1 file changed, 2 insertions(+), 1 deletion(-)
$
```

## 10 a screenshot of the CLI after merging the featureY branch (with conflict)



The screenshot shows a Windows File Explorer window on the left and a terminal window on the right. The File Explorer window displays the contents of the 'Sprints-SWCM-Task' directory, which includes a '.git' folder, a 'README' file, and a 'task-data' file. The terminal window shows the output of several Git commands executed in a Windows command prompt.

```
git merge featureX
Updating 8b72f81..493c1cb
Fast-forward
 task-data.txt | 3 +++
 1 file changed, 3 insertions(+), 1 deletion(-)

git branch -d featureX
Deleted branch featureX (was 493c1cb).

git checkout featureY
Switched to branch 'featureY'
Your branch is up to date with 'origin/featureY'.

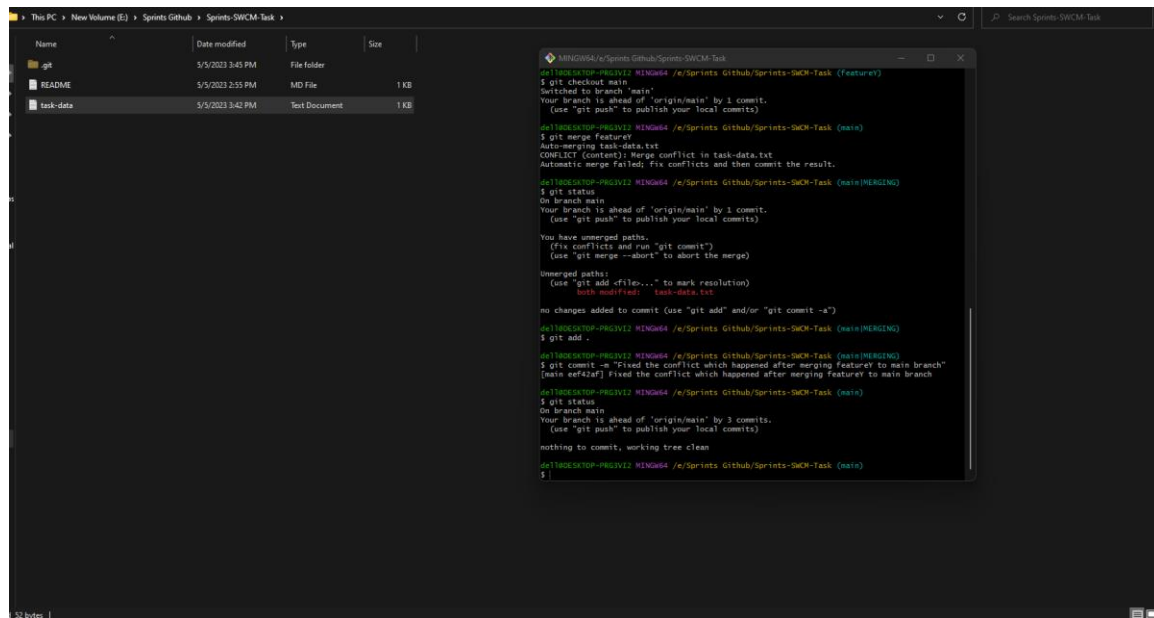
git pull
Already up to date.

git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

git merge featureY
Auto-merging task-data.txt
CONFLICT (content): Merge conflict in task-data.txt
Automatic merge failed. Fix conflicts and then commit the result.

git
```

## 11 a screenshot of the CLI after resolving merge conflicts if any



The screenshot shows a Windows File Explorer window with the address bar indicating the path: This PC > New Volume (E:) > Sprints Github > Sprints-SWCM-Task. The file list contains:

Name	Date modified	Type	Size
git	5/5/2023 3:45 PM	File folder	
README	5/5/2023 2:55 PM	MD File	1 KB
task-data	5/5/2023 3:42 PM	Text Document	1 KB

Overlaid on the right is a terminal window titled 'MINGW64 /c:/Sprints Github/Sprints-SWCM-Task'. It displays the following Git command output:

```
de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (featurex)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main)
$ git merge featurex
Auto-merging task-data.txt
CONFLICT (content): Merge conflict in task-data.txt
Automatic merge failed; fix conflicts and then commit the result.

de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main/MERGING)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

You have unmerged paths.
  (fix conflicts and run "git commit")
  (use "git merge --abort" to abort the merge)

Unmerged paths:
  (use "git add <file>..." to mark resolution)
        both modified:   task-data.txt

no changes added to commit (use "git add" and/or "git commit -a")
de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main/MERGING)
$ git add .

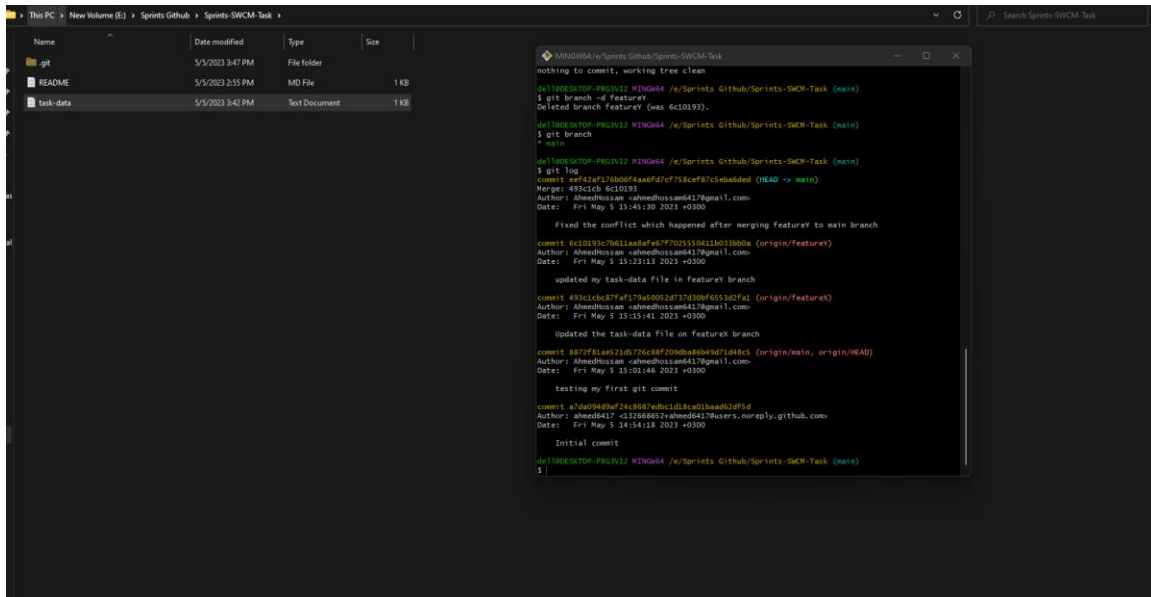
de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main/MERGING)
$ git commit -m "fixed the conflict which happened after merging featurex to main branch"
[master 9ef2af2] fixed the conflict which happened after merging featurex to main branch

de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

de11@DESKTOP-PRG3VJ2 MINGW64 /c:/Sprints Github/Sprints-SWCM-Task (main)
$ !
```

## 12 a screenshot of the CLI showing the commit history (FINAL)



The screenshot shows a Windows File Explorer window on the left and a terminal window on the right. The File Explorer window displays the contents of a folder named 'Sprints SWCM-Task', which includes a '.git' folder, a 'README' file, and a 'task-data' file. The terminal window shows the output of the 'git log' command, displaying the commit history in reverse chronological order. The commits include an initial commit, a commit for testing, a merge commit, and several commits related to updating the 'task-data' file and resolving conflicts.

```
nothing to commit, working tree clean

de1180e5TOP-PRG5V12 MINGW64 /e:/Sprints Github/Sprints-SWCM-Task (main)
$ git branch -d featureY
Deleted branch featureY (was 6c10193).
de1180e5TOP-PRG5V12 MINGW64 /e:/Sprints Github/Sprints-SWCM-Task (main)
$ git branch
* main

de1180e5TOP-PRG5V12 MINGW64 /e:/Sprints Github/Sprints-SWCM-Task (main)
$ git log
commit 8f42af176b00f4a6f8f7c7f58eef87c5e4b6d (HEAD -> main)
Merge: 493c1cb 6c10193
Author: AhmedHossan <ahmedhossan417@gmail.com>
Date: Fri May 5 15:14:19 2023 +0300

    Fixed the conflict which happened after merging featureY to main branch

commit 6c10193c7611a6baf6cf792d550421a6130bde (origin/featureY)
Author: AhmedHossan <ahmedhossan417@gmail.com>
Date: Fri May 5 15:23:13 2023 +0300

    updated my task-data file in featureY branch

commit 493c1cb87fa7179a5002d7374309f6553d7fa1 (origin/featureX)
Author: AhmedHossan <ahmedhossan417@gmail.com>
Date: Fri May 5 15:15:41 2023 +0300

    Updated the task-data file on featureX branch

commit 8872f81a6231d0726c887209b0a46b4b671d48c5 (origin/main, origin/HEAD)
Author: AhmedHossan <ahmedhossan417@gmail.com>
Date: Fri May 5 15:10:14 2023 +0300

    testing my first git commit

commit a7d40948af34c8687edbc1d18a2d01bae822cf5d
Author: ahmed4417 <11266851+ahmed4417@users.noreply.github.com>
Date: Fri May 5 14:54:18 2023 +0300

    Initial commit

de1180e5TOP-PRG5V12 MINGW64 /e:/Sprints Github/Sprints-SWCM-Task (main)
$
```