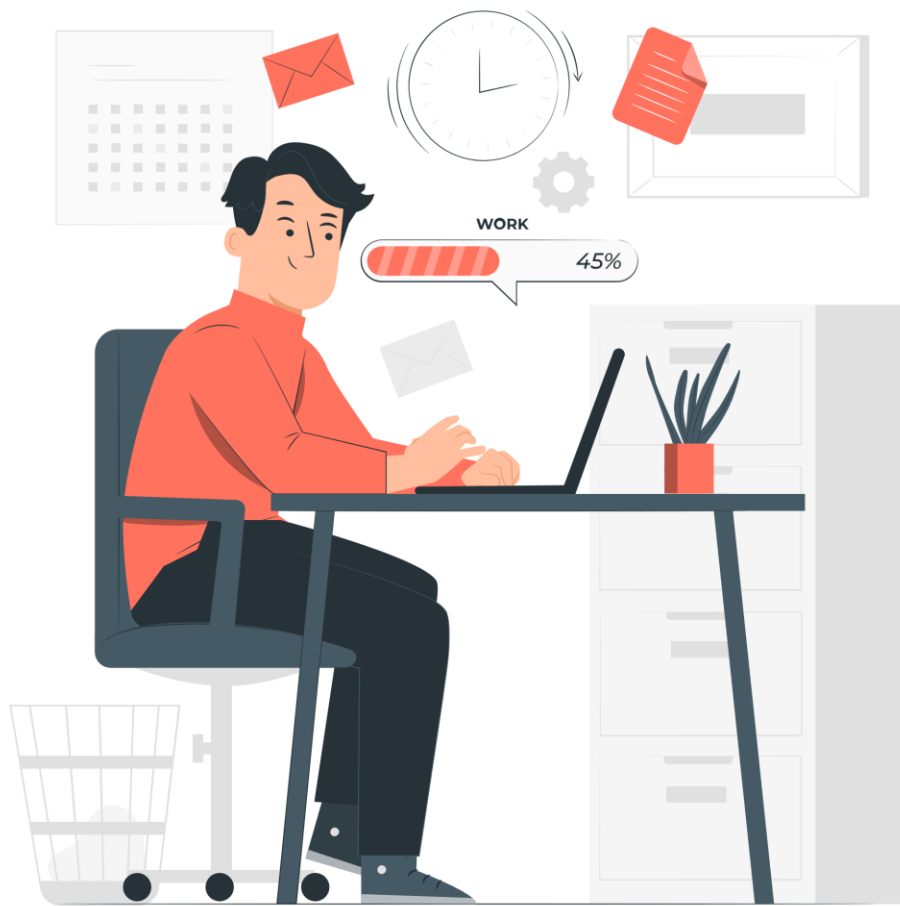


Task3

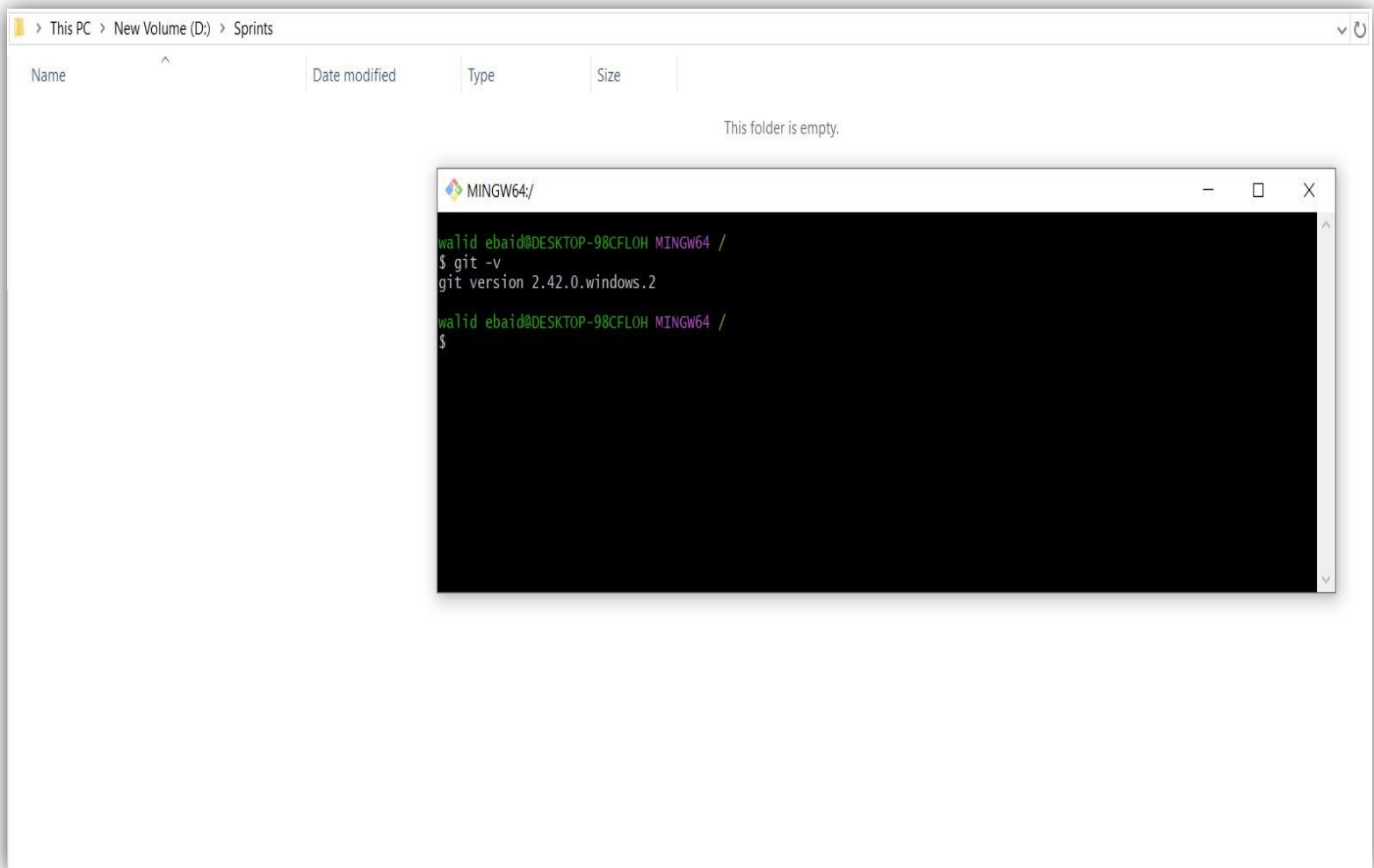
Software Configuration Management - Git VCS - Practicing Git



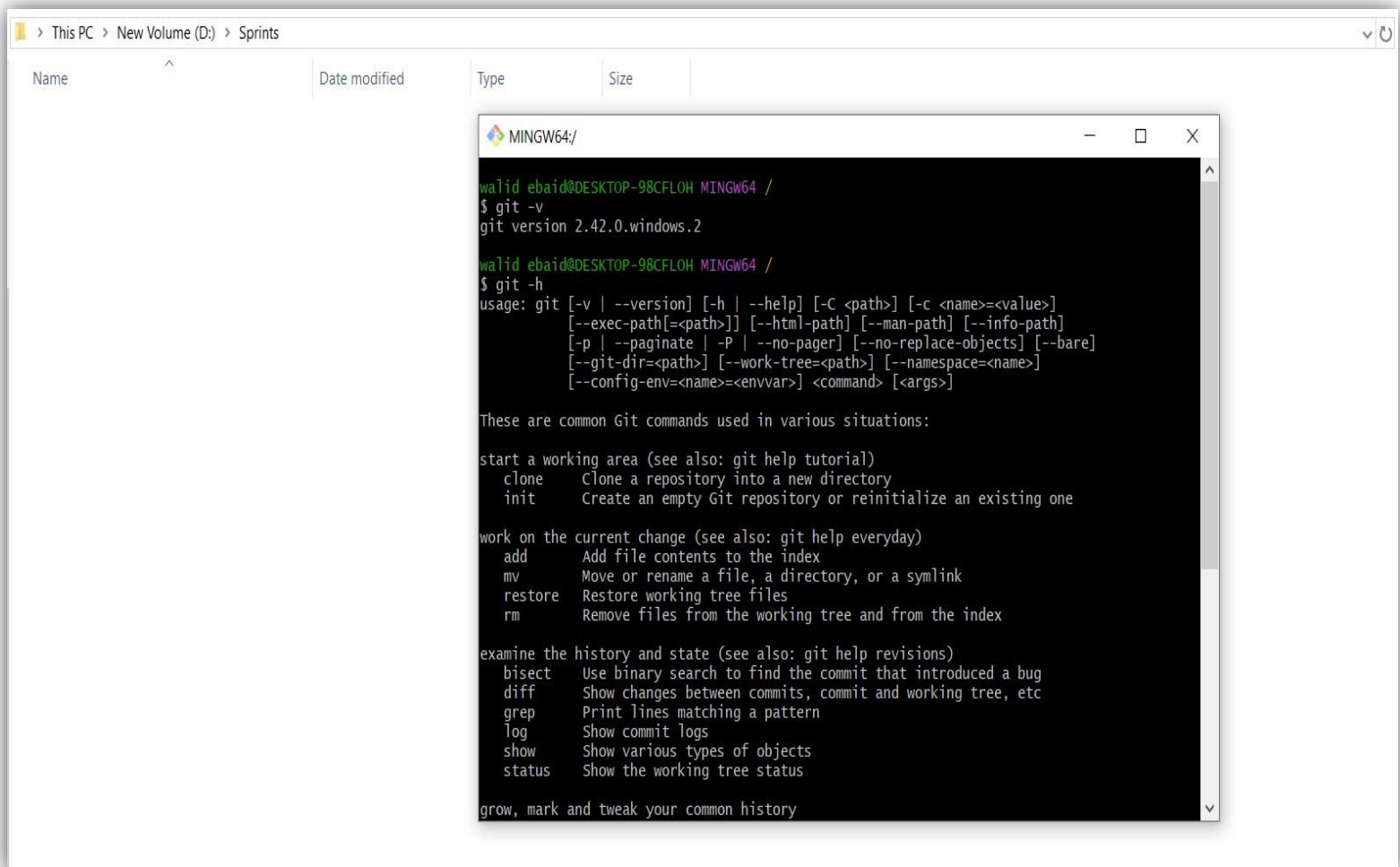
Practice Git Task

Walid Ebaid Abdel Ghaffar

1- screenshot of the CLI shows the current Git version



2- screenshots 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 (D:) > Sprints'. The main area is empty. Overlaid on this is a terminal window titled 'MINGW64/'. The terminal shows the following commands and output:

```
walid ebaid@DESKTOP-98CFLOH MINGW64 /
$ git -v
git version 2.42.0.windows.2

walid ebaid@DESKTOP-98CFLOH MINGW64 /
$ 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:

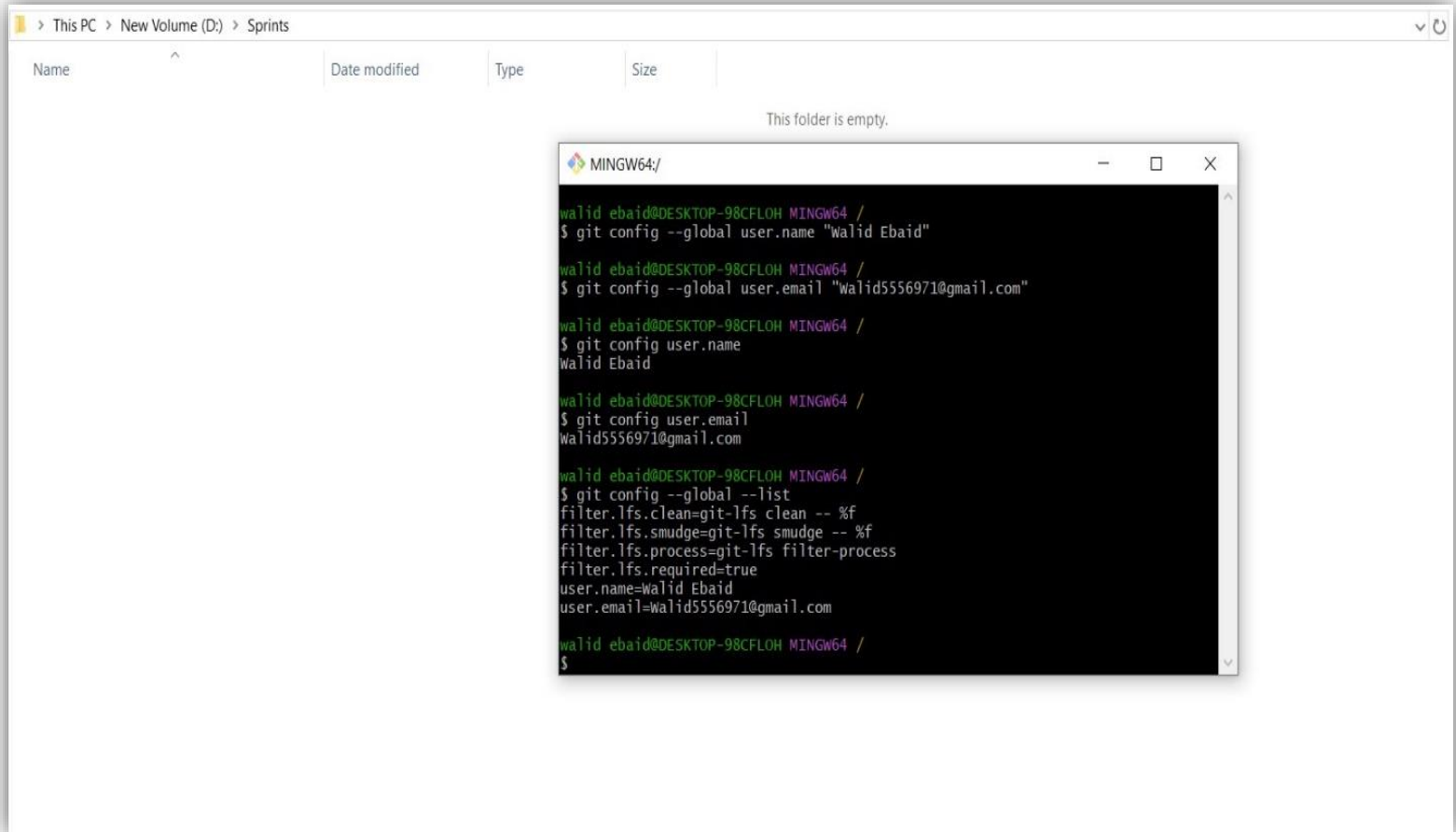
start a working area (see also: git help tutorial)
  clone      Clone a repository into a new directory
  init       Create an empty Git repository or reinitialize an existing one

work on the current change (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

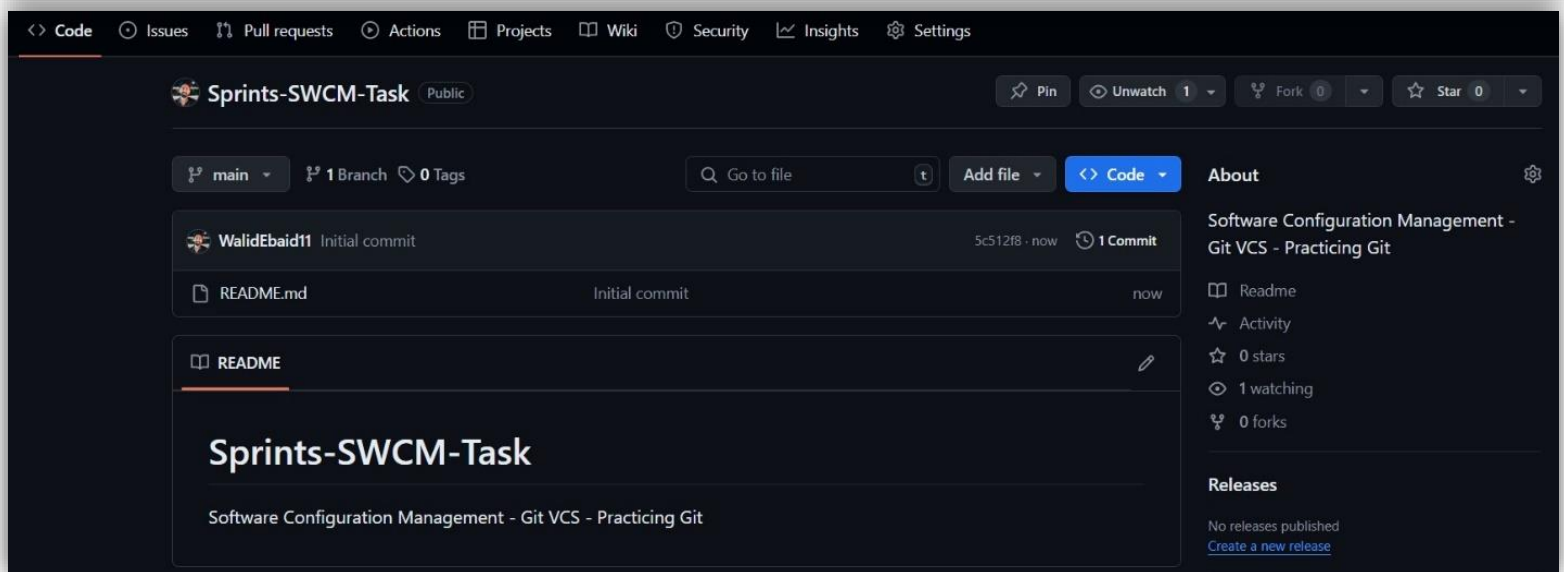
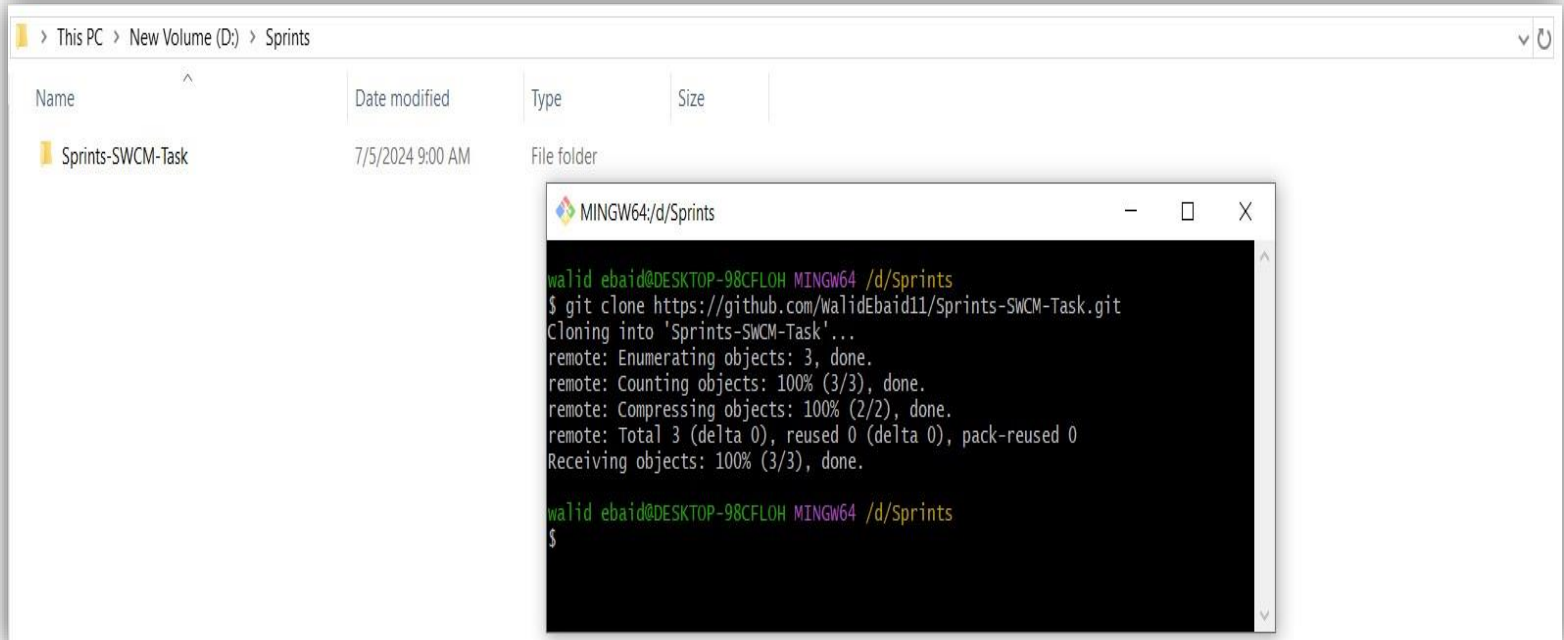
examine the history and state (see also: git help revisions)
  bisect     Use binary search to find the commit that introduced a bug
  diff       Show changes between commits, commit and working tree, etc
  grep       Print lines matching a pattern
  log        Show commit logs
  show       Show various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

grow, mark and tweak your common history
```

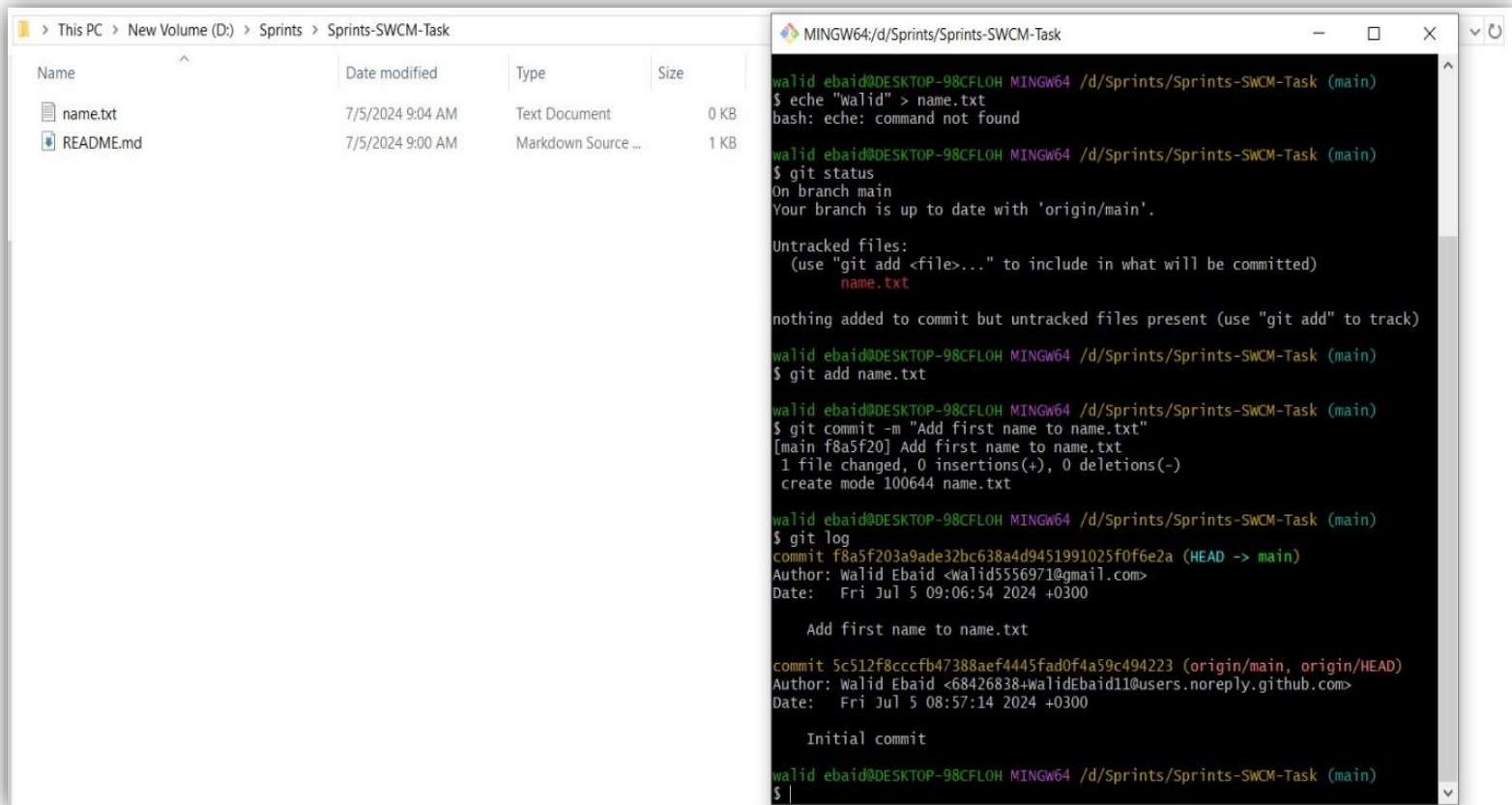
3- screenshot of the CLI showing the configured username and email showing



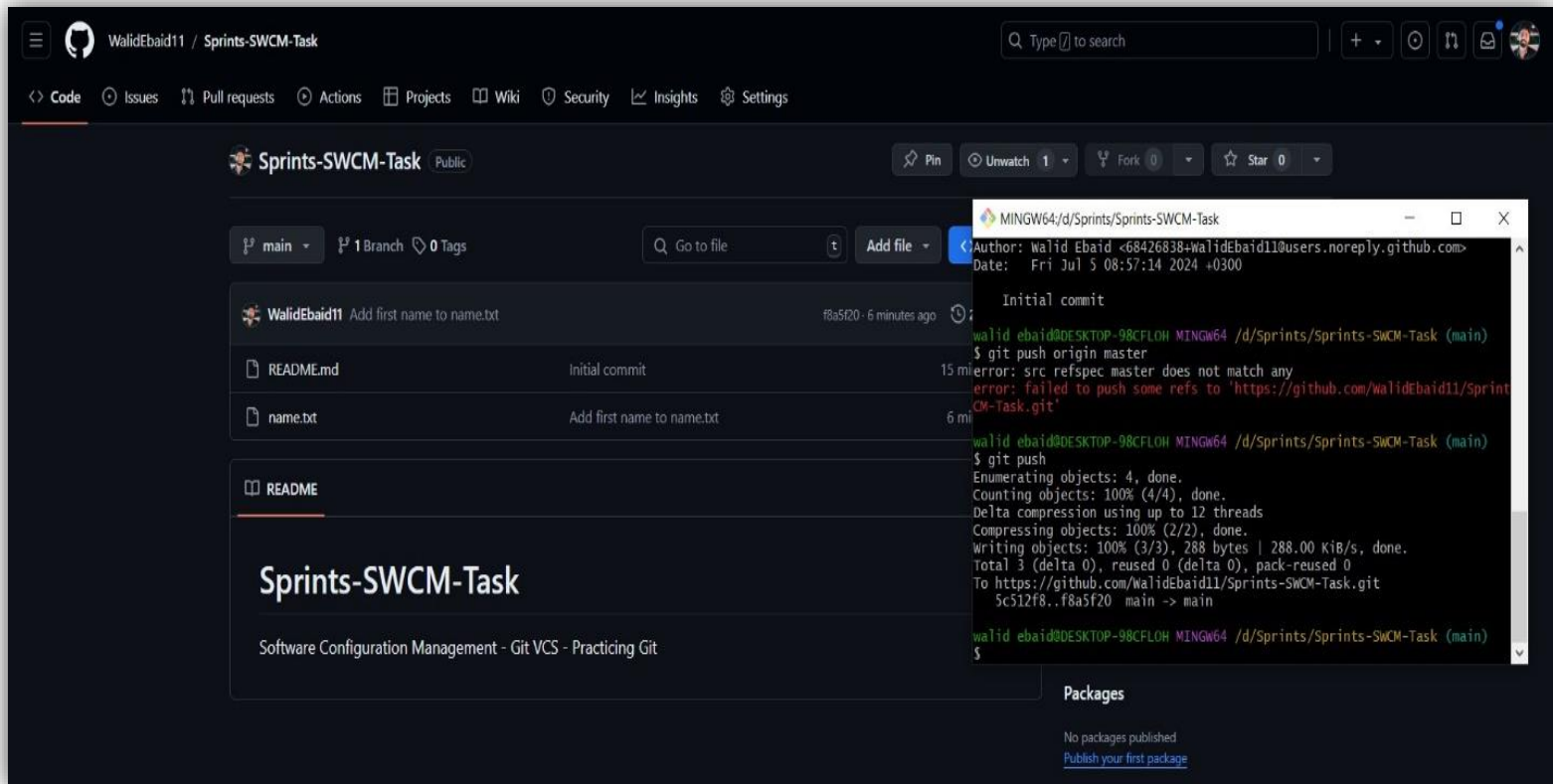
4- screenshot of the CLI showing the cloning command result



5- screenshot of the CLI showing the commit history



6- screenshot of the CLI shows the push command results



The screenshot displays the GitHub interface for the repository 'Sprints-SWCM-Task' by user 'WalidEbaid11'. The repository is public and has 1 branch (main) and 0 tags. The file list shows 'README.md' (Initial commit) and 'name.txt' (Add first name to name.txt). The README content is 'Sprints-SWCM-Task' and 'Software Configuration Management - Git VCS - Practicing Git'.

A terminal window is open in the foreground, showing the results of a git push command. The terminal output is as follows:

```
Initial commit
walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git push origin master
error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/WalidEbaid11/Sprints-SWCM-Task.git'
walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ 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), 288 bytes | 288.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/WalidEbaid11/Sprints-SWCM-Task.git
5c512f8..f8a5f20  main -> main
walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$
```

The terminal window title is 'MINGW64/d/Sprints/Sprints-SWCM-Task'.

7- screenshot of the CLI shows the push command results for featureX and feature

The screenshot displays a GitHub repository named "Sprints-SWCM-Task" by user "WalidEbaid11". The repository page shows the "main" branch with 3 branches and 0 tags. The file list includes "README.md" (Initial commit) and "name.txt" (Add first name to name.txt). The README content is "Sprints-SWCM-Task" and "Software Configuration Management - Git VCS - Practicing Git".

Overlaid on the repository page is a terminal window titled "MINGW64/d/Sprints/Sprints-SWCM-Task". The terminal shows the following commands and output:

```
fatal: The current branch featureY has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin featureY

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureY)
$ git push --set-upstream origin featureY
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% (3/3), 328 bytes | 328.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'featureY' on GitHub by visiting:
remote:   https://github.com/WalidEbaid11/Sprints-SWCM-Task/pull/new/featureY
remote:
To https://github.com/WalidEbaid11/Sprints-SWCM-Task.git
 * [new branch]   featureY -> featureY
branch 'featureY' set up to track 'origin/featureY'.

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureY)
$ git checkout featureX
Switched to branch 'featureX'
Your branch is ahead of 'origin/featureX' by 1 commit.
(use "git push" to publish your local commits)

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureX)
$ git push
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% (3/3), 306 bytes | 306.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/WalidEbaid11/Sprints-SWCM-Task.git
 f8a5f20..2f462ed featureX -> featureX

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureX)
$
```


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

The screenshot displays the GitHub interface for the repository 'Sprints-SWCM-Task' by user 'WalidEbaid11'. The repository is public and has 3 branches and 0 tags. The main branch is selected. The file list shows 'README.md' (Initial commit) and 'name.txt' (Add first name to name.txt). A terminal window is open, showing the following git log output:

```
$ git log
commit f8a5f203a9ade32bc638a4d9451991025f0f6e2a (HEAD -> main, origin/main, origin/HEAD)
Author: Walid Ebaid <walid5556971@gmail.com>
Date: Fri Jul 5 09:06:54 2024 +0300

    Add first name to name.txt

commit 5c512f8cccfb47388aef4445fad0f4a59c494223
Author: Walid Ebaid <68426838@users.noreply.github.com>
Date: Fri Jul 5 08:57:14 2024 +0300

    Initial commit

walid_ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git log --oneline --all --graph --decorate
* 3470701 (origin/featureY, featureY) Add second and last names to name.txt in featureY
| * 2f462ed (origin/featureX, featureX) Add second name to name.txt in featureX
|/
* f8a5f20 (HEAD -> main, origin/main, origin/HEAD) Add first name to name.txt
* 5c512f8 Initial commit

walid_ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$
```

The repository description is 'Sprints-SWCM-Task' and the subtitle is 'Software Configuration Management - Git VCS - Practicing Git'. The package status shows 'No packages published' with a link to 'Publish your first package'.

9- a screenshot of the CLI after merging the featureX branch

The screenshot shows the GitHub interface for the repository 'Sprints-SWCM-Task' by user 'WalidEbaid11'. The repository is public and has 3 branches and 0 tags. The 'main' branch is selected. A commit by 'WalidEbaid11' with the message 'Add first name to name.txt' is shown, dated 48 minutes ago. The file 'name.txt' is listed with the commit message 'Add first name to name.txt' and dated 48 minutes ago. The README file is listed with the commit message 'Initial commit' and dated 1 hour ago. A terminal window is open in the foreground, showing the following commands and output:

```
MINGW64/d/Sprints/Sprints-SWCM-Task
walid ebaid@DESKTOP-98CFL0H MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git branch
featureX
featureY
* main

walid ebaid@DESKTOP-98CFL0H MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git merge featureX
Updating f8a5f20..2f462ed
Fast-forward
 name.txt | 1 +
 1 file changed, 1 insertion(+)

walid ebaid@DESKTOP-98CFL0H MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$
```

The terminal window also shows the output of the 'git merge featureX' command, indicating a fast-forward merge of 'name.txt' with 1 insertion.

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

```
MINGW64/d/Sprints/Sprints-SWCM-Task
walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git branch
  featureX
  featureY
* main

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git branch -d featureX
Deleted branch featureX (was 2f462ed).

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git checkout fratureY
error: pathspec 'fratureY' did not match any file(s) known to git

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git checkout featureY
Switched to branch 'featureY'
Your branch is up to date with 'origin/featureY'.

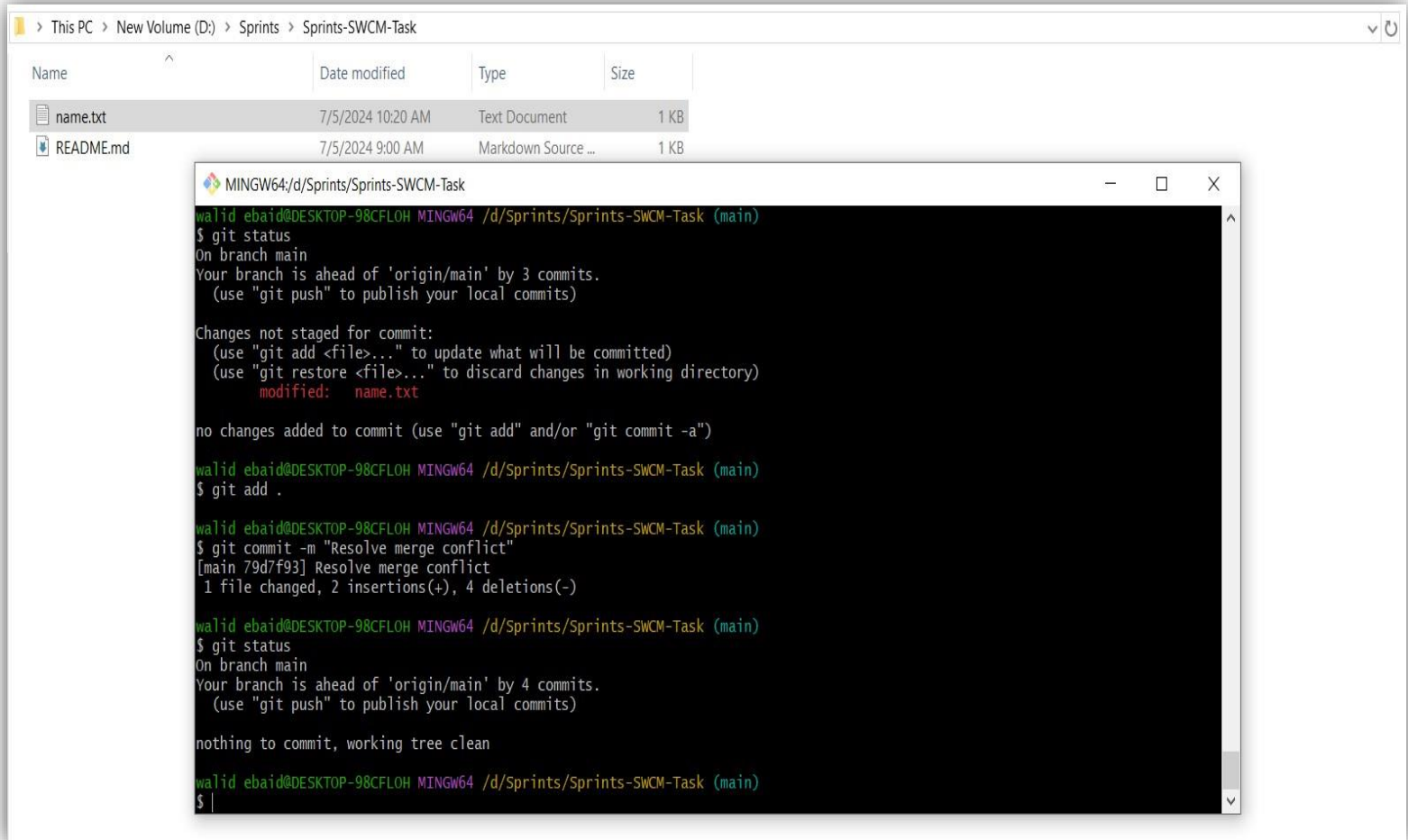
walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureY)
$ git pull
Already up to date.

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (featureY)
$ 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)

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git merge featureY
Auto-merging name.txt
CONFLICT (content): Merge conflict in name.txt
Automatic merge failed; fix conflicts and then commit the result.

walid ebaid@DESKTOP-98CFLOH MINGW64 /d/Sprints/Sprints-SWCM-Task (main|MERGING)
$
```

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



The screenshot shows a Windows File Explorer window and a Windows Command Prompt window. The File Explorer window displays the contents of the 'Sprints-SWCM-Task' directory, which includes 'name.txt' and 'README.md'. The Command Prompt window shows the output of several Git commands, including 'git status', 'git add', and 'git commit -m "Resolve merge conflict"'. The output indicates that the branch is ahead of 'origin/main' by 3 commits, and that the merge conflict has been resolved successfully.

```
mingw64@d/sprints/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)

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:   name.txt

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

mingw64@d/sprints/sprints-swcm-task (main)
$ git add .

mingw64@d/sprints/sprints-swcm-task (main)
$ git commit -m "Resolve merge conflict"
[main 79d7f93] Resolve merge conflict
1 file changed, 2 insertions(+), 4 deletions(-)

mingw64@d/sprints/sprints-swcm-task (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 4 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

mingw64@d/sprints/sprints-swcm-task (main)
$
```

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

```
MINGW64/d/Sprints/Sprints-SWCM-Task
$ git log
commit 79d7f93f33742fa0aa68b30dcacd5d0dbdb33349 (HEAD -> main)
Author: Walid Ebaid <Walid5556971@gmail.com>
Date: Fri Jul 5 10:22:28 2024 +0300

    Resolve merge conflict

commit b8b533b6eefbd11f41ed9886021d4e008bc590a8
Merge: 2f462ed 3470701
Author: Walid Ebaid <Walid5556971@gmail.com>
Date: Fri Jul 5 10:07:37 2024 +0300

    Resolve merge conflict

commit 3470701092e6004735a6f69ab6d5b2b5e64a59fd (origin/featureY)
Author: Walid Ebaid <Walid5556971@gmail.com>
Date: Fri Jul 5 09:40:31 2024 +0300

    Add second and last names to name.txt in featureY

commit 2f462ed17e9aedb041523696dad0a89526bafd4 (origin/featureX)
Author: Walid Ebaid <Walid5556971@gmail.com>
Date: Fri Jul 5 09:24:29 2024 +0300

    Add second name to name.txt in featureX

commit f8a5f203a9ade32bc638a4d9451991025f0f6e2a (origin/main, origin/HEAD)
Author: Walid Ebaid <Walid5556971@gmail.com>
Date: Fri Jul 5 09:06:54 2024 +0300

    Add first name to name.txt

commit 5c512f8cccfb47388aef4445fad0f4a59c494223
Author: Walid Ebaid <68426838+WalidEbaid11@users.noreply.github.com>
Date: Fri Jul 5 08:57:14 2024 +0300

    Initial commit

walid_ebaid@DESKTOP-98CFL0H MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$ git log --oneline --all --graph --decorate
* 79d7f93 (HEAD -> main) Resolve merge conflict
* b8b533b Resolve merge conflict
| \
| * 3470701 (origin/featureY) Add second and last names to name.txt in featureY
* | 2f462ed (origin/featureX) Add second name to name.txt in featureX
| /
* f8a5f20 (origin/main, origin/HEAD) Add first name to name.txt
* 5c512f8 Initial commit

walid_ebaid@DESKTOP-98CFL0H MINGW64 /d/Sprints/Sprints-SWCM-Task (main)
$
```