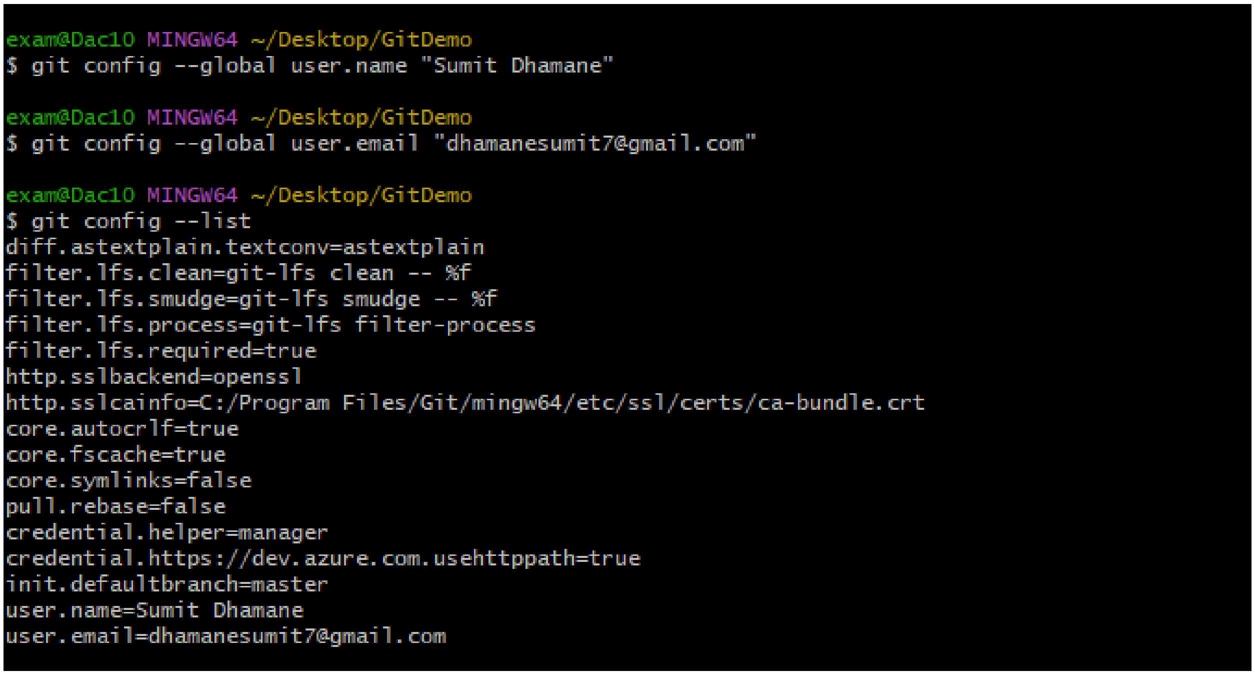
Task 1: Configure Git

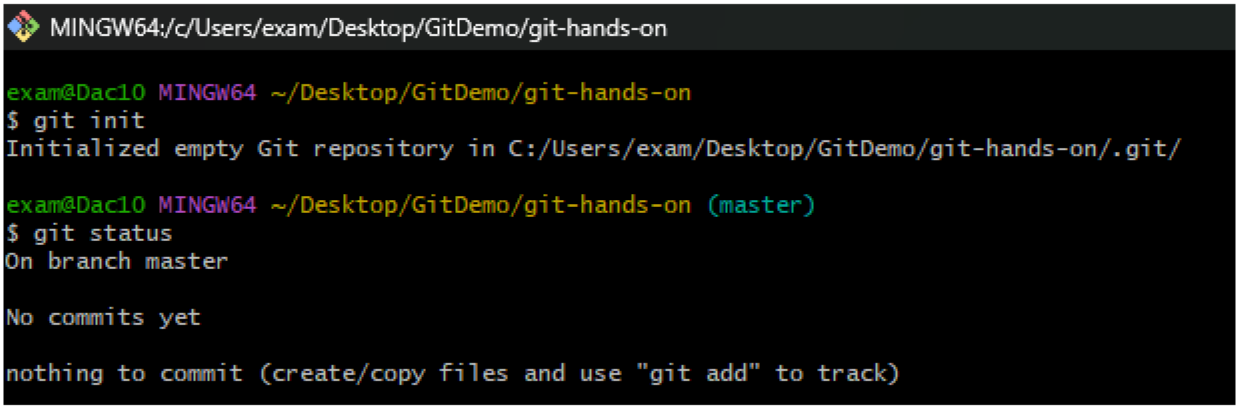
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --global user.name "Sumit Dhamane"

exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --global user.email "dhamanesumit7@gmail.com"

exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Sumit Dhamane
user.email=dhamanesumit7@gmail.com
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --global user.name "Sumit Dhamane"

exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --global user.email "dhamanesumit7@gmail.com"

exam@Dac10 MINGW64 ~/Desktop/GitDemo
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.name=Sumit Dhamane
user.email=dhamanesumit7@gmail.com
```

Task 2: Initialize a Local Repository

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on
$ git init
Initialized empty Git repository in C:/Users/exam/Desktop/GitDemo/git-hands-on/.git/

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git status
On branch master

No commits yet

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

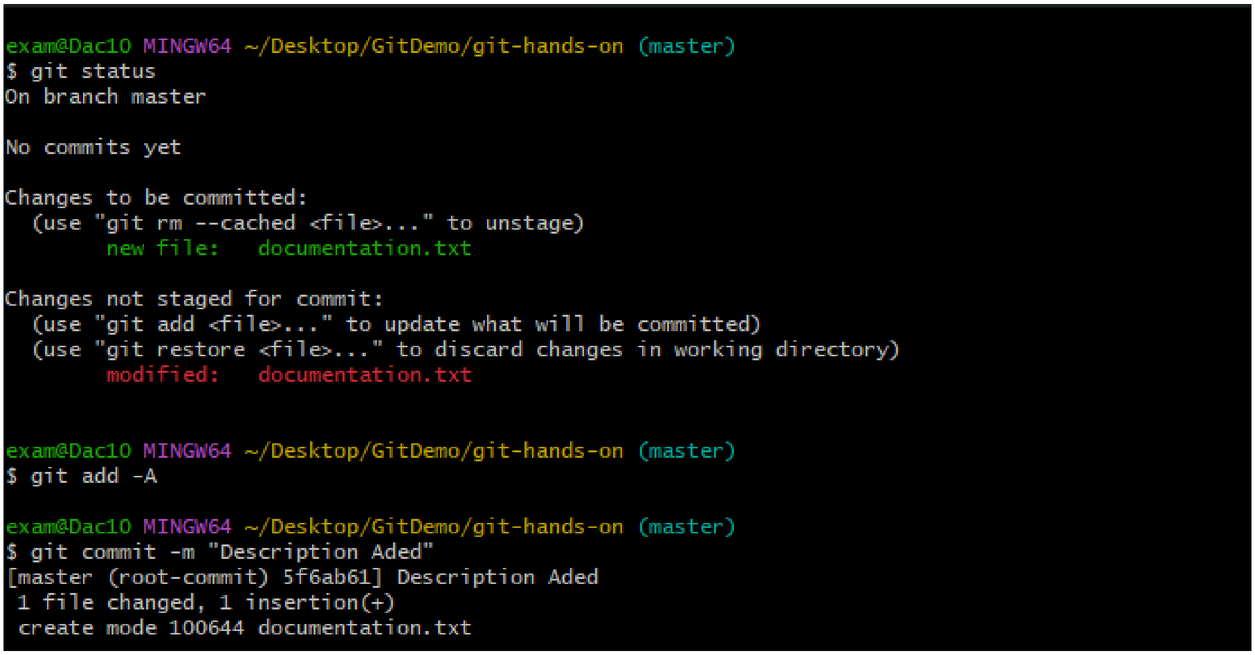


```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on
$ git init
Initialized empty Git repository in C:/Users/exam/Desktop/GitDemo/git-hands-on/.git/

exam@Dac10 MINGW64 ~/Desktop/GitDemo/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

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   documentation.txt

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)
```

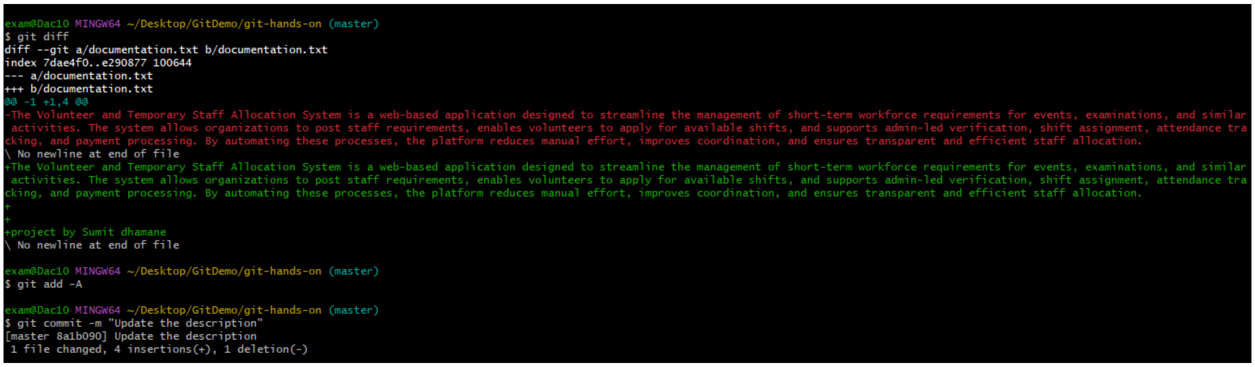
```
        modified:   documentation.txt


exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git add -A

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git commit -m "Description Aded"
[master (root-commit) 5f6ab61] Description Added
 1 file changed, 1 insertion(+)
 create mode 100644 documentation.txt
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   documentation.txt

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:   documentation.txt


exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git add -A

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git commit -m "Description Aded"
[master (root-commit) 5f6ab61] Description Aded
 1 file changed, 1 insertion(+)
 create mode 100644 documentation.txt
```

Task 4: Modify and Commit Changes

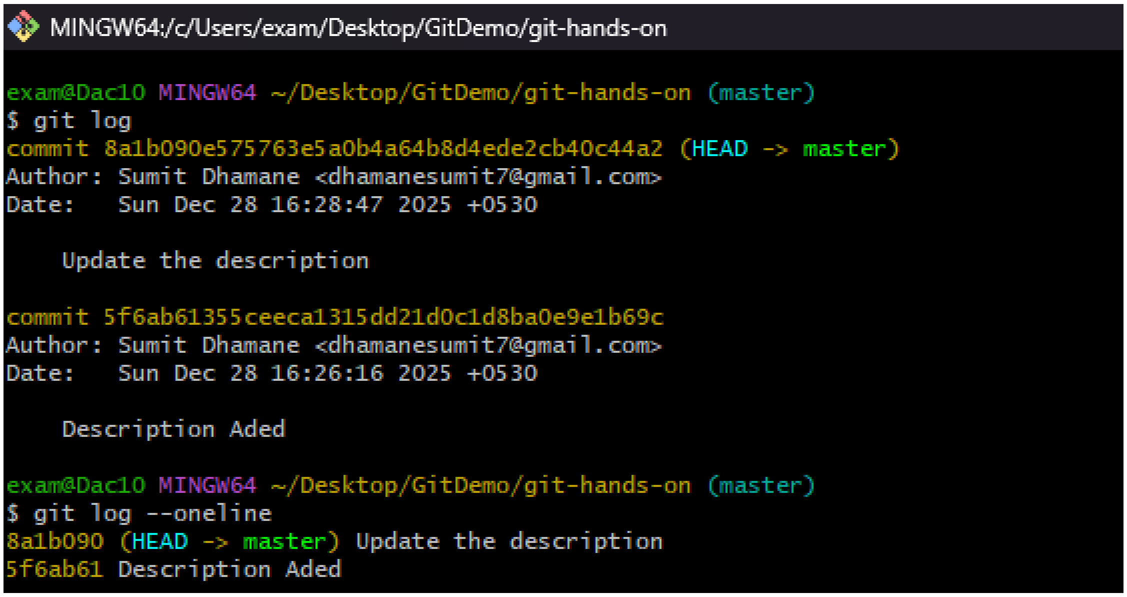
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git diff
diff --git a/documentation.txt b/documentation.txt
index 7dae4f0..e290877 100644
--- a/documentation.txt
+++ b/documentation.txt
@@ -1 +1,4 @@
-The Volunteer and Temporary Staff Allocation System is a web-based application designed to streamline the management of short-term workforce requirements for events, examinations, and similar activities. The system allows organizations to post staff requirements, enables volunteers to apply for available shifts, and supports admin-led verification, shift assignment, attendance tracking, and payment processing. By automating these processes, the platform reduces manual effort, improves coordination, and ensures transparent and efficient staff allocation.
\ No newline at end of file
+The Volunteer and Temporary Staff Allocation System is a web-based application designed to streamline the management of short-term workforce requirements for events, examinations, and similar activities. The system allows organizations to post staff requirements, enables volunteers to apply for available shifts, and supports admin-led verification, shift assignment, attendance tracking, and payment processing. By automating these processes, the platform reduces manual effort, improves coordination, and ensures transparent and efficient staff allocation.
+project by Sumit dhamane
\ No newline at end of file

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git add -A

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git commit -m "Update the description"
[master 8a1b090] Update the description
 1 file changed, 4 insertions(+), 1 deletion(-)
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git diff
diff --git a/documentation.txt b/documentation.txt
index 7dae4f0..e290877 100644
--- a/documentation.txt
+++ b/documentation.txt
@@ -1 +1,4 @@
-The Volunteer and Temporary Staff Allocation System is a web-based application designed to streamline the management of short-term workforce requirements for events, examinations, and similar
 activities. The system allows organizations to post staff requirements, enables volunteers to apply for available shifts, and supports admin-led verification, shift assignment, attendance tra
cking, and payment processing. By automating these processes, the platform reduces manual effort, improves coordination, and ensures transparent and efficient staff allocation.
\ No newline at end of file
+The Volunteer and Temporary Staff Allocation System is a web-based application designed to streamline the management of short-term workforce requirements for events, examinations, and similar
 activities. The system allows organizations to post staff requirements, enables volunteers to apply for available shifts, and supports admin-led verification, shift assignment, attendance tra
cking, and payment processing. By automating these processes, the platform reduces manual effort, improves coordination, and ensures transparent and efficient staff allocation.
+
+
+project by Sumit dhamane
\ No newline at end of file

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git add -A

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git commit -m "Update the description"
[master 8a1b090] Update the description
 1 file changed, 4 insertions(+), 1 deletion(-)
```

Task 5: View Commit History

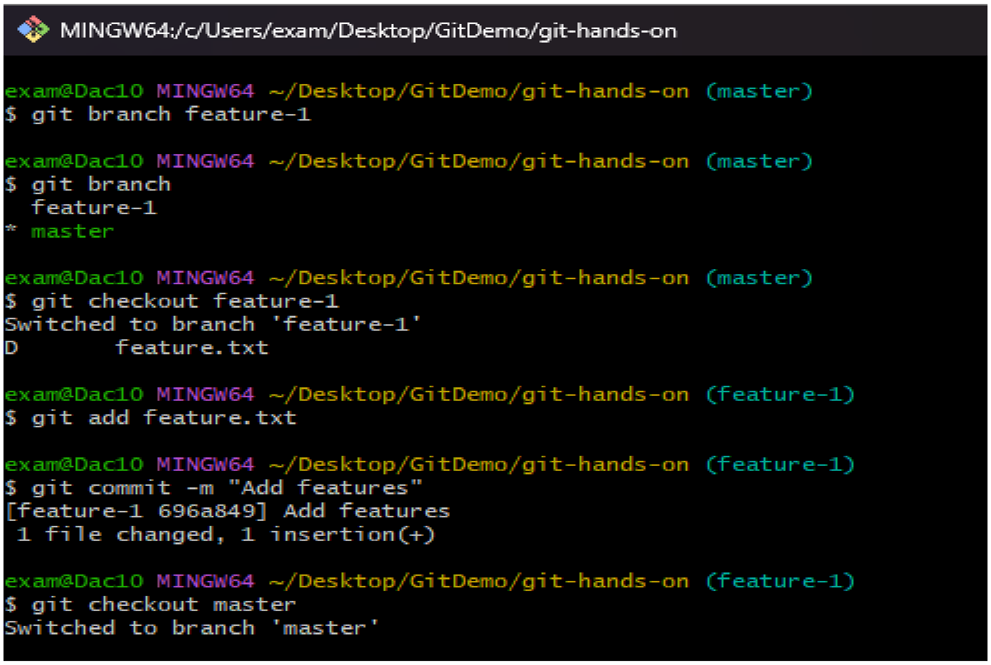
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git log
commit 8a1b090e575763e5a0b4a64b8d4ede2cb40c44a2 (HEAD -> master)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:28:47 2025 +0530

    Update the description

commit 5f6ab61355ceeca1315dd21d0c1d8ba0e9e1b69c
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:26:16 2025 +0530

    Description Aded

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git log --oneline
8a1b090 (HEAD -> master) Update the description
5f6ab61 Description Aded
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git log
commit 8a1b090e575763e5a0b4a64b8d4ede2cb40c44a2 (HEAD -> master)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:28:47 2025 +0530

    Update the description

commit 5f6ab61355ceeca1315dd21d0c1d8ba0e9e1b69c
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:26:16 2025 +0530

    Description Aded

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git log --oneline
8a1b090 (HEAD -> master) Update the description
5f6ab61 Description Aded
```

Task 6: Create and Work with Branches

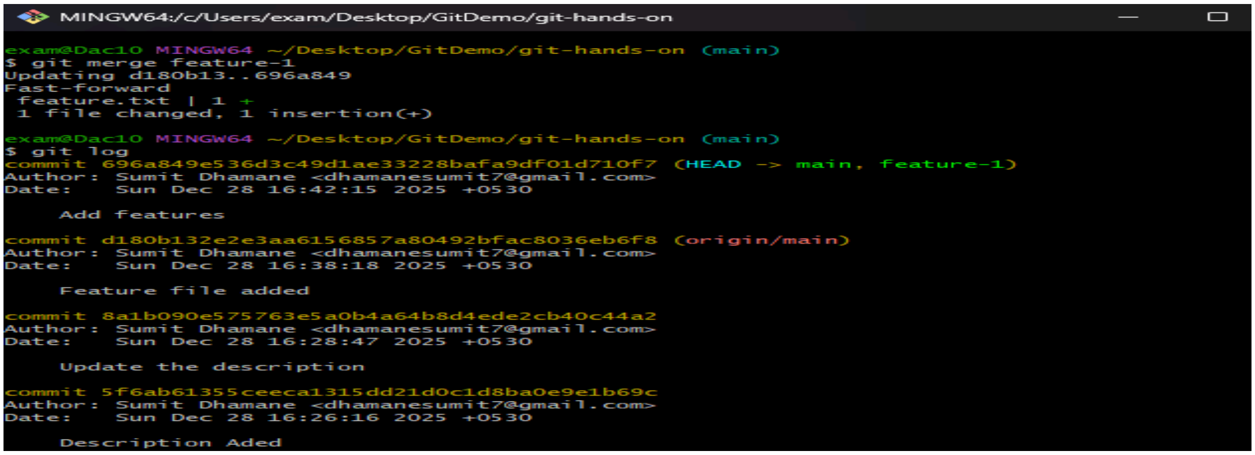
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git branch feature-1

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git branch
  feature-1
* master

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git checkout feature-1
Switched to branch 'feature-1'
D       feature.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git add feature.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git commit -m "Add features"
[feature-1 696a849] Add features
 1 file changed, 1 insertion(+)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git checkout master
Switched to branch 'master'
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git branch feature-1

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git branch
  feature-1
* master

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (master)
$ git checkout feature-1
Switched to branch 'feature-1'
D       feature.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git add feature.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git commit -m "Add features"
[feature-1 696a849] Add features
 1 file changed, 1 insertion(+)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (feature-1)
$ git checkout master
Switched to branch 'master'
```

Task 7: Merge Branches

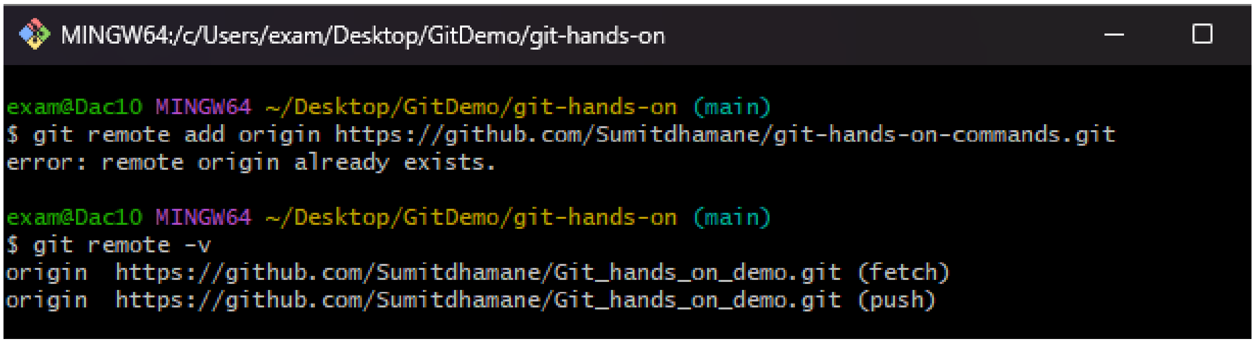
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git merge feature-1
Updating d180b13..696a849
Fast-forward
 feature.txt | 1 +
 1 file changed, 1 insertion(+)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git log
commit 696a849e536d3c49d1ae33228bafa9df01d710f7 (HEAD -> main, feature-1)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:42:15 2025 +0530

    Add features
commit d180b132e2e3aa6156857a80492bfac8036eb6f8 (origin/main)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:38:18 2025 +0530
    Feature file added
commit 8a1b090e575763e5a0b4a64b8d4ede2cb40c44a2
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:28:47 2025 +0530
    Update the description
commit 5f6ab61355ceeca1315dd21d0c1d8ba0e9e1b69c
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:26:16 2025 +0530
    Description Added
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git merge feature-1
Updating d180b13..696a849
Fast-forward
 feature.txt | 1 +
 1 file changed, 1 insertion(+)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git log
commit 696a849e536d3c49d1ae33228bafa9df01d710f7 (HEAD -> main, feature-1)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:42:15 2025 +0530

    Add features

commit d180b132e2e3aa6156857a80492bfac8036eb6f8 (origin/main)
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:38:18 2025 +0530

    Feature file added

commit 8a1b090e575763e5a0b4a64b8d4ede2cb40c44a2
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:28:47 2025 +0530

    Update the description

commit 5f6ab61355ceeca1315dd21d0c1d8ba0e9e1b69c
Author: Sumit Dhamane <dhamanesumit7@gmail.com>
Date:   Sun Dec 28 16:26:16 2025 +0530

    Description Aded
```

Task 8: Connect to a Remote Repository

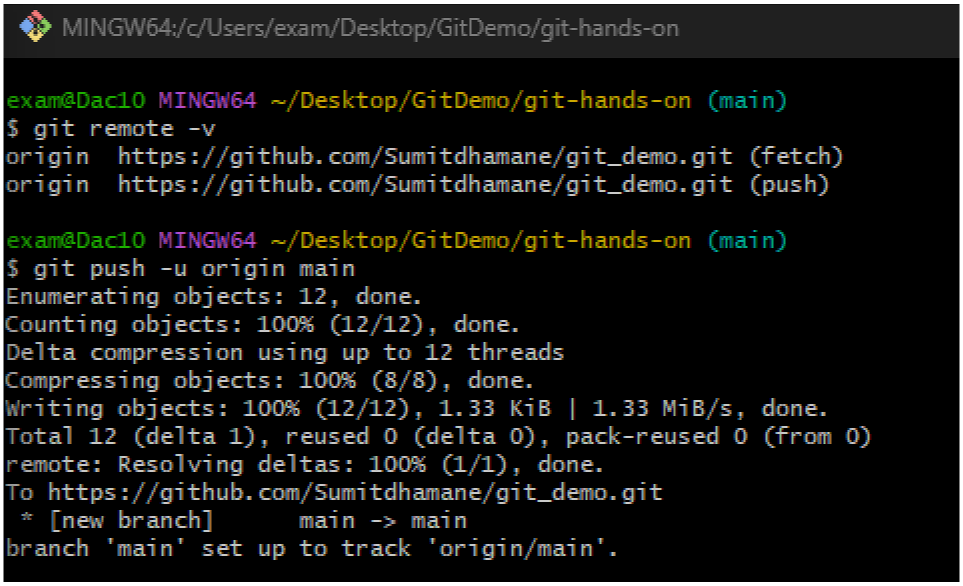
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote add origin https://github.com/Sumitdhamane/git-hands-on-commands.git
error: remote origin already exists.

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote -v
origin  https://github.com/Sumitdhamane/Git_hands_on_demo.git (fetch)
origin  https://github.com/Sumitdhamane/Git_hands_on_demo.git (push)
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote add origin https://github.com/Sumitdhamane/git-hands-on-commands.git
error: remote origin already exists.

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote -v
origin  https://github.com/Sumitdhamane/Git_hands_on_demo.git (fetch)
origin  https://github.com/Sumitdhamane/Git_hands_on_demo.git (push)
```

Task 9: Push Code to GitHub

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote -v
origin  https://github.com/Sumitdhamane/git_demo.git (fetch)
origin  https://github.com/Sumitdhamane/git_demo.git (push)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.33 KiB | 1.33 MiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Sumitdhamane/git_demo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

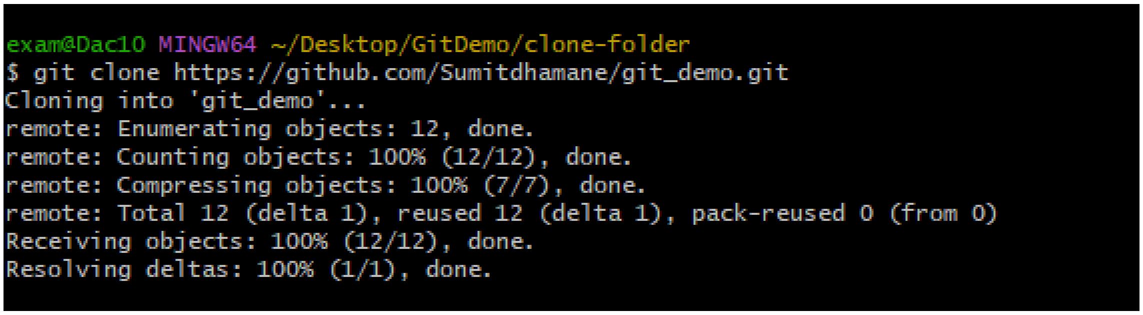


MINGW64:/c/Users/exam/Desktop/GitDemo/git-hands-on

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git remote -v
origin  https://github.com/Sumitdhamane/git_demo.git (fetch)
origin  https://github.com/Sumitdhamane/git_demo.git (push)

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git push -u origin main
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 12 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.33 KiB | 1.33 MiB/s, done.
Total 12 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Sumitdhamane/git_demo.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

Task 10: Clone a Repository

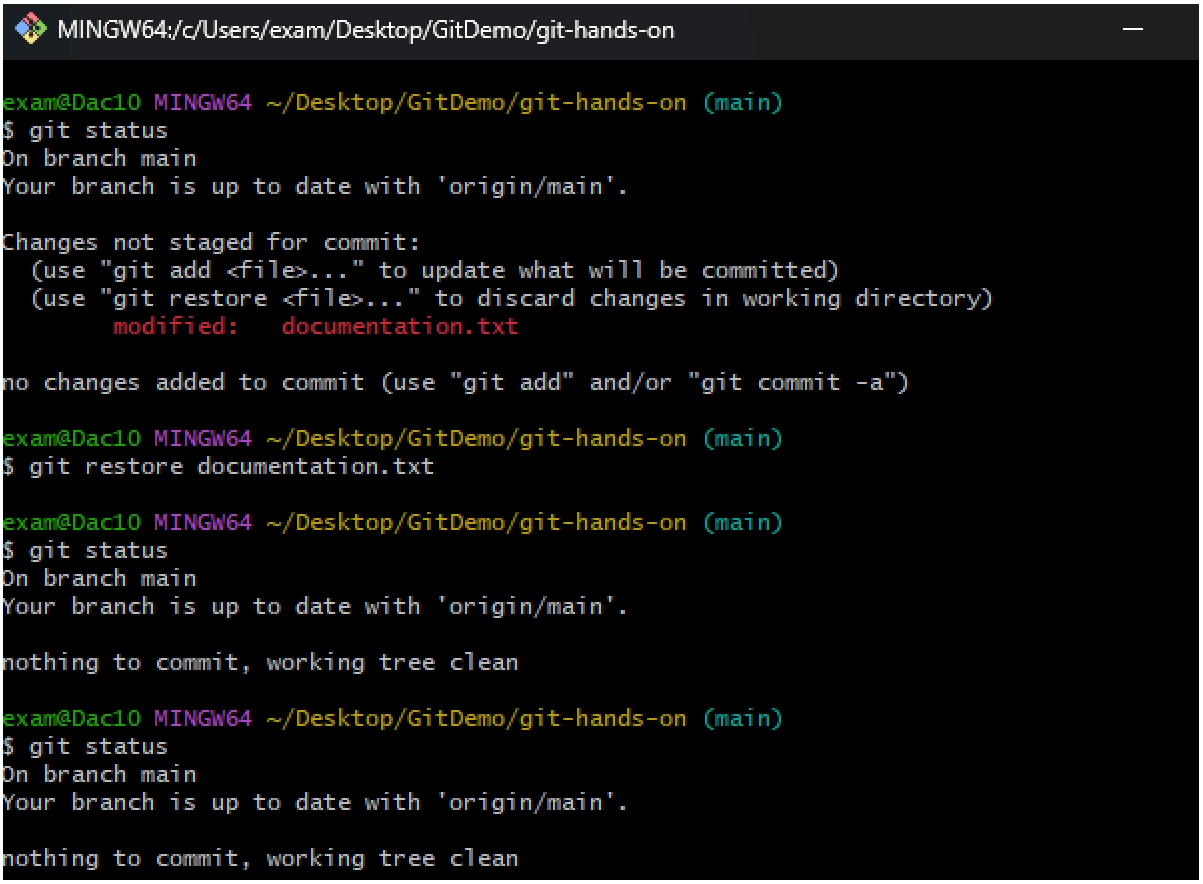
```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/clone-folder
$ git clone https://github.com/Sumitdhamane/git_demo.git
Cloning into 'git_demo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 12 (delta 1), reused 12 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.
```



```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/clone-folder
$ git clone https://github.com/Sumitdhamane/git_demo.git
Cloning into 'git_demo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 12 (delta 1), reused 12 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.
```

Task 11: Undo Changes

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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:   documentation.txt

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

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git restore documentation.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

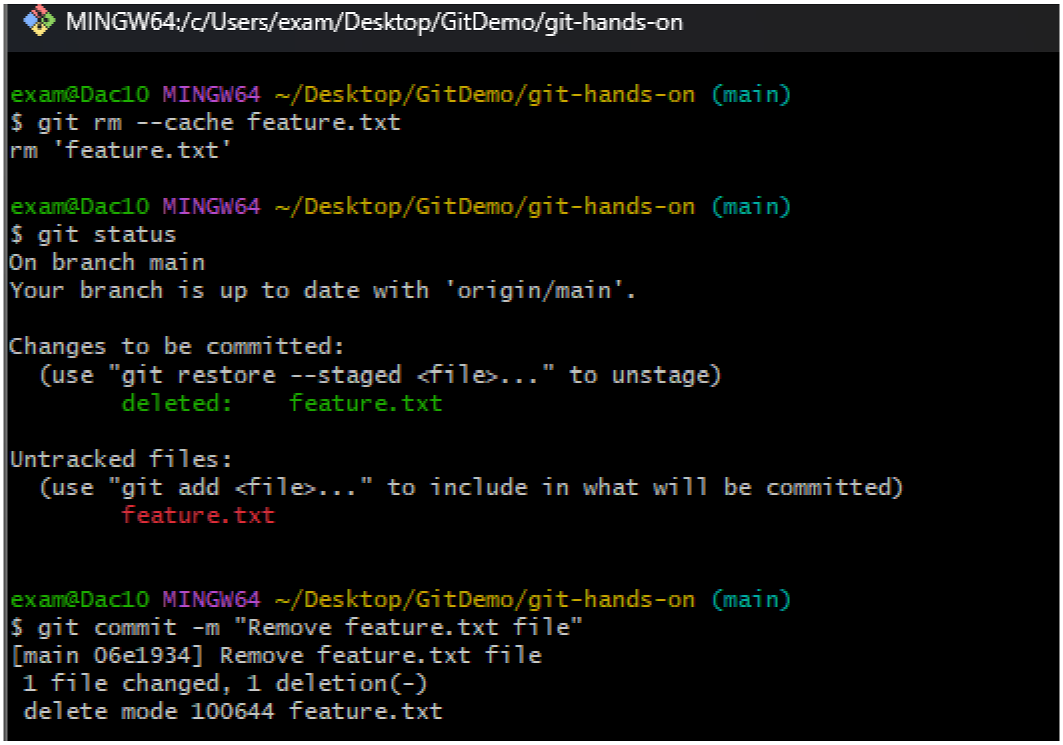


```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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:   documentation.txt

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

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git restore documentation.txt

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

Task 12: Remove Files

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git rm --cache feature.txt
rm 'feature.txt'

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    feature.txt

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

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git commit -m "Remove feature.txt file"
[main 06e1934] Remove feature.txt file
 1 file changed, 1 deletion(-)
 delete mode 100644 feature.txt
```



MINGW64:/c/Users/exam/Desktop/GitDemo/git-hands-on

```
exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git rm --cache feature.txt
rm 'feature.txt'

exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        deleted:    feature.txt

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


exam@Dac10 MINGW64 ~/Desktop/GitDemo/git-hands-on (main)
$ git commit -m "Remove feature.txt file"
[main 06e1934] Remove feature.txt file
 1 file changed, 1 deletion(-)
 delete mode 100644 feature.txt
```