

Git Assessment

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Date: 21/06/2025

1. Create some files and add content:

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git init
Initialized empty Git repository in C:/Users/Admin/Desktop/sanika/.git/

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ touch file1.txt file2.txt file3.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file1.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file
file1.txt file2.txt file3.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file2.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file3.txt
```

2. Commit all the files:

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "Initial commit"
On branch master

Initial commit

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    abc.txt
    file1.txt
    file2.txt
    file3.txt
    hello.class
    hello.java
    laxmi.txt
    sakshi.txt
    sanika.txt
    xyz.html

nothing added to commit but untracked files present (use "git add" to track)
```

3. Modify Content:

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file1.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file2.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file3.txt
```

4. Add only 2 files in staging area and commit:

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git add file1.txt file2.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "In file1 and file2 changes occurred"
[master (root-commit) e429537] In file1 and file2 changes occurred
 2 files changed, 4 insertions(+)
 create mode 100644 file1.txt
 create mode 100644 file2.txt
```

5. Commit remaining files

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "Initial commit"
[master a70e8bd] Initial commit
 8 files changed, 41 insertions(+)
 create mode 100644 abc.txt
 create mode 100644 file3.txt
 create mode 100644 hello.class
 create mode 100644 hello.java
 create mode 100644 laxmi.txt
 create mode 100644 sakshi.txt
 create mode 100644 sanika.txt
 create mode 100644 xyz.html
```

6. Check log

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git log
commit a70e8bd3fef6599617d3352452c87dae1d836e20 (HEAD -> master)
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 09:45:59 2025 +0530

    Initial commit

commit e42953725586cc37a1bb96135677efd2d6be7ed8
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 09:44:41 2025 +0530

    In file1 and file2 changes occurred
```

7. Check log in short line

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git log --oneline
a70e8bd (HEAD -> master) Initial commit
e429537 In file1 and file2 changes occurred
```

8. Again change content of all files

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file1.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file2.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file3.txt
```

9. Add them in staging area

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git add .
warning: in the working copy of 'file1.txt', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'file2.txt', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'file3.txt', LF will be replaced by CRLF the next time Git touches it
```

10. Take any file back to working area

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file1.txt
```

11. Discard the content

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ cat file2.txt
Hii This is second file
New lin added
bye

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ > file2.txt
```

12. Commit all the files

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git add .

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "All filea are committed"
[master 6577365] All filea are committed
3 files changed, 1 insertion(+), 7 deletions(-)
```

13.Create a new file, add content and commit it

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ touch new_file.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi new_file.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git add new_file.txt
warning: in the working copy of 'new_file.txt', LF will be replaced by CRLF the next time Git touches it

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "Committed new file"
[master 3f445e4] Committed new file
 1 file changed, 2 insertions(+)
 create mode 100644 new_file.txt
```

14.Erase all the content from new file and commit it

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ cat new_file.txt
This is the new file
hii here is sanika

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ > new_file.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ cat new_file.txt
```

15.Recover all the back to new file

```
Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ vi file3.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git add .
warning: in the working copy of 'file3.txt', LF will be replaced by CRLF the next time Git touches it

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git commit -m "Changes done"
[master 6b02a48] Changes done
1 file changed, 1 insertion(+), 1 deletion(-)

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git log
commit 6b02a484ace6c46d5ae4e12b985db9e8c7610da8 (HEAD -> master)
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 10:32:16 2025 +0530

    Changes done

commit 3f445e41907283c97124f266f21e32a57f31dcc7
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 10:16:26 2025 +0530

    Committed new file

commit 657736553820f6e91f2eb2e34effaee47ce38553
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 10:14:34 2025 +0530

    All filea are commited

commit 65acadb16fcac68ca03546a525d768370bac830d8
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 09:53:46 2025 +0530

    Changes in file1

commit a70e8bd3fef6599617d3352452c87dae1d836e20
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 09:45:59 2025 +0530

    Initial commit

commit e42953725586cc37a1bb96135677efd2d6be7ed8
Author: sanika <bsanika@gmail.com>
Date: Sat Jun 21 09:44:41 2025 +0530

    In file1 and file2 changes occured

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ git checkout 6b02a48ac -- file3.txt

Admin@DESKTOP-RQVA9LI MINGW64 ~/Desktop/sanika (master)
$ cat file3.txt
i this is thirld file
New line added
Thank you
```