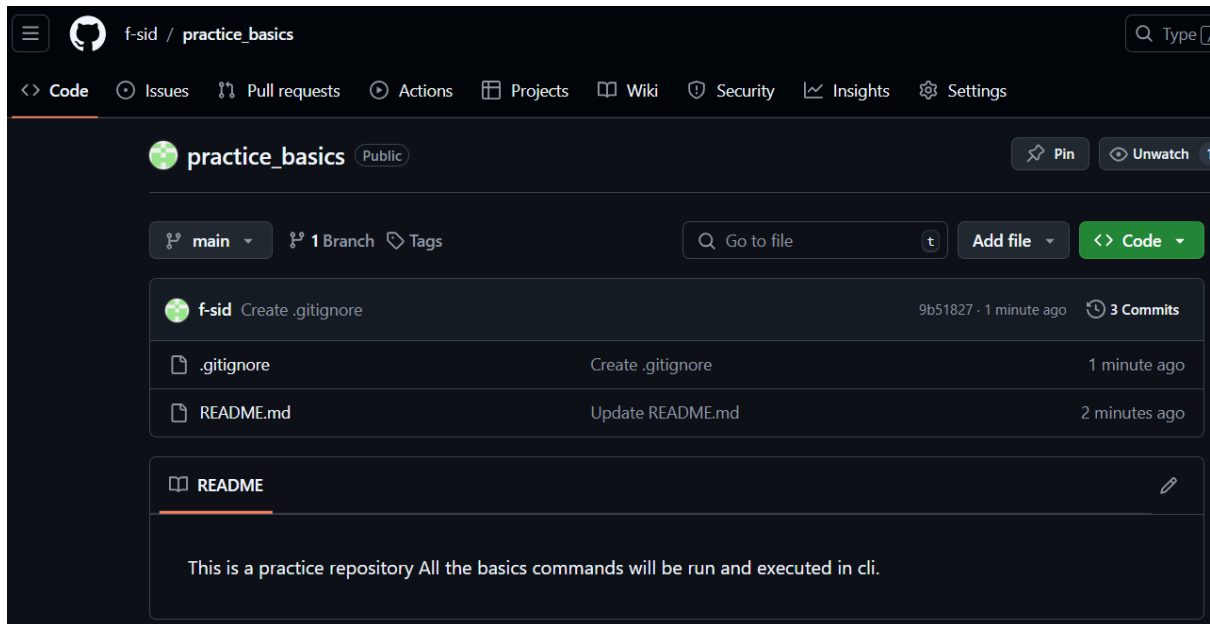


1) Install git.

```
[batman@ip-172-31-2-182 ~]$ git init
hint: Using 'master' as the name for the initial branch. This default branch
hint: name
hint: is subject to change. To configure the initial branch name to use in
hint: all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this comman
hint: d:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/batman/.git/
```

2) Create a repo in github with README.md and .ignore file.



The screenshot shows the GitHub interface for a repository named 'practice_basics' owned by 'f-sid'. The repository is public and has a 'main' branch. The commit history shows three commits: 'Create .gitignore' (1 minute ago), 'Update README.md' (2 minutes ago), and 'Create .gitignore' (1 minute ago). The README file is visible and contains the text: 'This is a practice repository All the basics commands will be run and executed in cli.'

3) Clone the created repo to local.

```
[batman@ip-172-31-2-182 ~]$ git clone git@github.com:f-sid/practice_basics.git
Cloning into 'practice_basics'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (9/9), done.
[batman@ip-172-31-2-182 ~]$ ls
practice_basics  test_script
[batman@ip-172-31-2-182 ~]$ cd practice_basics/
[batman@ip-172-31-2-182 practice_basics]$ ls
README.md
```

4) Create two files in local repo.

```
[batman@ip-172-31-2-182 practice_basics]$ touch devops linux
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

nothing added to commit but untracked files present (use "git add" to track)
[batman@ip-172-31-2-182 practice_basics]$ git add .
```







5) Commit two files and push to central Repository.

```
[batman@ip-172-31-2-182 practice_basics]$ git log -2
commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0 (HEAD -> main)
Author: syedf <syedfs9@outlook.com>
Date:   Wed Nov 6 10:46:36 2024 +0000

    added two files

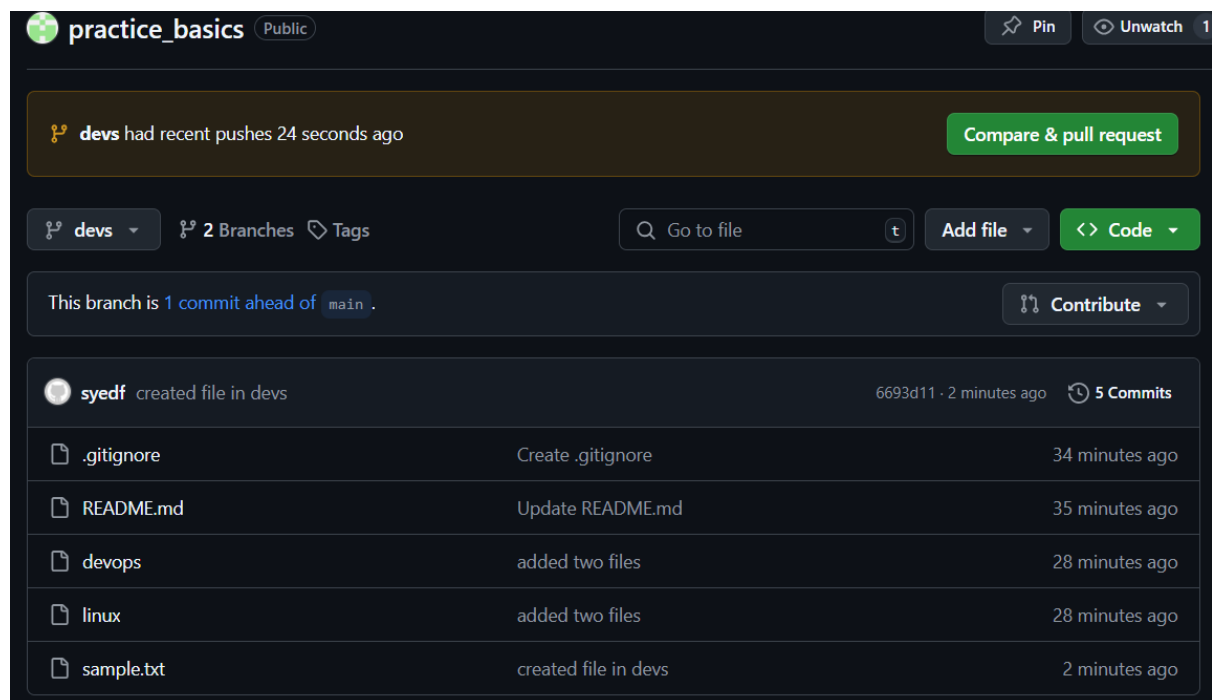
commit 9b51827fbe677774ada9cc295b222f34d0545f44 (origin/main, origin/HEAD)
Author: Farsaan Siddiqui <syedfs97@outlook.com>
Date:   Wed Nov 6 16:10:44 2024 +0530

    Create .gitignore
[batman@ip-172-31-2-182 practice_basics]$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 314 bytes | 314.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:f-sid/practice_basics.git
   9b51827..1ad9eda  main -> main
branch 'main' set up to track 'origin/main'.
[batman@ip-172-31-2-182 practice_basics]$ |
```


 syedf	added two files	1ad9eda · 23 minutes ago	 4 Commits
 .gitignore	Create .gitignore	28 minutes ago	
 README.md	Update README.md	29 minutes ago	
 devops	added two files	23 minutes ago	
 linux	added two files	23 minutes ago	




6) Create a branch in local and create a sample file and push to central.

```
[batman@ip-172-31-2-182 practice_basics]$ git checkout devs
Switched to branch 'devs'
[batman@ip-172-31-2-182 practice_basics]$ touch sample.txt
[batman@ip-172-31-2-182 practice_basics]$ git add .
[batman@ip-172-31-2-182 practice_basics]$ git commit -m "created file in devs"
[devs 6693d11] created file in devs
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 sample.txt
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch devs
nothing to commit, working tree clean
[batman@ip-172-31-2-182 practice_basics]$ git push -u origin devs
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 259 bytes | 259.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'devs' on GitHub by visiting:
remote:   https://github.com/f-sid/practice_basics/pull/new/devs
remote:
To github.com:f-sid/practice_basics.git
 * [new branch]      devs -> devs
branch 'devs' set up to track 'origin/devs'.
```










practice_basics Public Pin Unwatch 1

 **devs** had recent pushes 24 seconds ago Compare & pull request

 **devs**  2 Branches  Tags t Add file <> Code

This branch is 1 commit ahead of **main**. Contribute

 **syedf** created file in devs 6693d11 · 2 minutes ago  5 Commits

 .gitignore	Create .gitignore	34 minutes ago
 README.md	Update README.md	35 minutes ago
 devops	added two files	28 minutes ago
 linux	added two files	28 minutes ago
 sample.txt	created file in devs	2 minutes ago

7) Create a branch in github and clone that to local.

```
[batman@ip-172-31-2-182 practice_basics]$ git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 900 bytes | 900.00 KiB/s, done.
From github.com:f-sid/practice_basics
* [new branch]      hotfix      -> origin/hotfix
  1ad9eda..486a853  main        -> origin/main
Already up to date.
[batman@ip-172-31-2-182 practice_basics]$ |
```

8) Merge the created branch with master in git local.

```
[batman@ip-172-31-2-182 practice_basics]$ git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (1/1), 900 bytes | 900.00 KiB/s, done.
From github.com:f-sid/practice_basics
* [new branch]      hotfix      -> origin/hotfix
  1ad9eda..486a853  main        -> origin/main
Already up to date.
[batman@ip-172-31-2-182 practice_basics]$ git checkout main
Switched to branch 'main'
Your branch is behind 'origin/main' by 2 commits, and can be fast-forwarded.
  (use "git pull" to update your local branch)
[batman@ip-172-31-2-182 practice_basics]$ git merge hotfix
merge: hotfix - not something we can merge

Did you mean this?
    origin/hotfix
[batman@ip-172-31-2-182 practice_basics]$ git merge origin/hotfix
Updating 1ad9eda..6693d11
Fast-forward
 sample.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 sample.txt
[batman@ip-172-31-2-182 practice_basics]$
```

9) Merge the created branch with master in github by sending a pull request.

new file added in release #1

Merged f-sid merged 1 commit into `main` from `release`  now

Conversation 0 Commits 1 Checks 0 Files changed 1

 **f-sid** commented 2 minutes ago Owner ...

No description provided.

 new file added in release 3218673


 **f-sid** self-assigned this 2 minutes ago

 **f-sid** merged commit `486a853` into `main` now Revert


 **Pull request successfully merged and closed** Delete branch

You're all set—the `release` branch can be safely deleted.


new file added in release #1


Open f-sid wants to merge 1 commit into `main` from `release` 


Conversation 0 Commits 1 Checks 0 Files changed 1

 **f-sid** commented now Owner ...


No description provided.

 new file added in release 3218673


 **f-sid** self-assigned this now

 **Require approval from specific reviewers before merging** Add rule ×

[Rulesets](#) ensure specific people approve pull requests before they're merged.


 **Continuous integration has not been set up**

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**

Merging can be performed automatically.

Merge pull request ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

 **Add a comment**

10) create a file in local and send that to branch in github.

```
[batman@ip-172-31-2-182 practice_basics]$ touch sample.file
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 2 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

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

nothing added to commit but untracked files present (use "git add" to track)
[batman@ip-172-31-2-182 practice_basics]$ git add .
[batman@ip-172-31-2-182 practice_basics]$ git commit -m "sample.file created"
[main bcee1b2] sample.file created
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 sample.file
[batman@ip-172-31-2-182 practice_basics]$ git push -u origin dev
branch 'devs' set up to track 'origin/devs'.
Everything up-to-date
```

The screenshot shows the GitHub interface for a repository named 'practice_basics'. At the top, there's a notification from 'hotfix' about recent pushes. Below that, the repository is set to the 'devs' branch, which is 1 commit ahead of and 2 commits behind the 'main' branch. A table of recent commits is displayed, showing files like '.gitignore', 'README.md', 'devops', 'linux', and 'sample.txt' being added or updated. The 'sample.txt' commit is the most recent, pushed 1 hour ago.

Commit Message	Time Ago
created file in devs	1 hour ago
added two files	2 hours ago
added two files	2 hours ago
Update README.md	2 hours ago
Create .gitignore	2 hours ago

11) clone only a branch from github to local.

```
[batman@ip-172-31-2-182 practice_basics]$ git clone --branch devs --single-branch git@github.com:f-sid/practice_basics.git
Cloning into 'practice_basics'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 14 (delta 2), reused 5 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (14/14), done.
Resolving deltas: 100% (2/2), done.
[batman@ip-172-31-2-182 practice_basics]$ ls
README.md  devops  linux  new.txt  practice_basics
[batman@ip-172-31-2-182 practice_basics]$ cd practice_basics/
[batman@ip-172-31-2-182 practice_basics]$ ls
README.md  devops  linux  sample.txt
[batman@ip-172-31-2-182 practice_basics]$
```

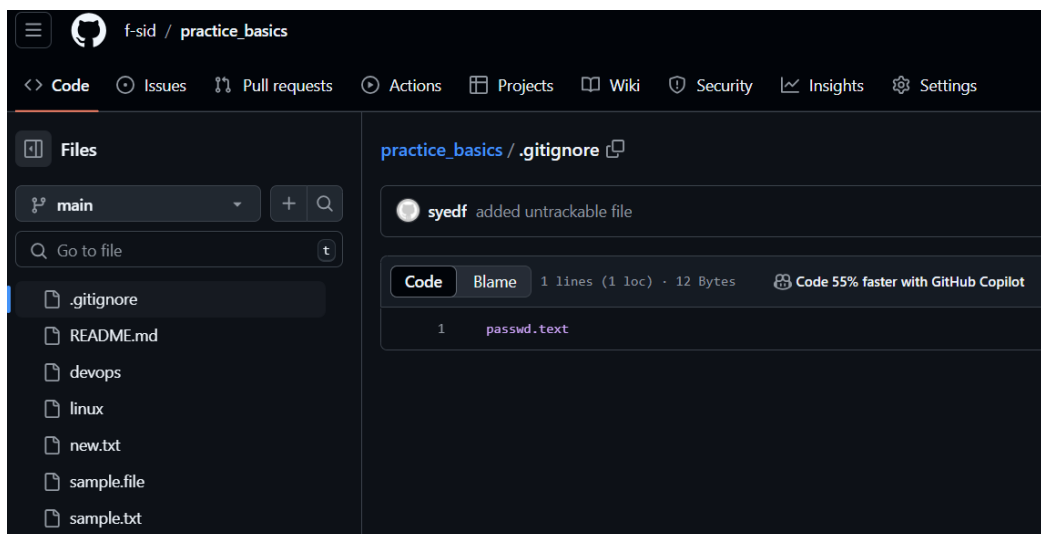
12) create a file with all passwords and make that untrackable with git.

```
[batman@ip-172-31-2-182 practice_basics]$ vi passwd.text
[batman@ip-172-31-2-182 practice_basics]$ ls -a
.      .git      README.md  linux      sample.file
..     .gitignore devops     passwd.text sample.txt
[batman@ip-172-31-2-182 practice_basics]$ vi .git ignore
2 files to edit
[batman@ip-172-31-2-182 practice_basics]$ vi .gitignore
[batman@ip-172-31-2-182 practice_basics]$ vi .gitignore
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch main
Your branch and 'origin/main' have diverged,
and have 2 and 2 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

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:   .gitignore

no changes added to commit (use "git add" and/or "git commit -a")
[batman@ip-172-31-2-182 practice_basics]$ git add .
[batman@ip-172-31-2-182 practice_basics]$ git commit -m "added untrackable file"
[main a3a24ed] added untrackable file
1 file changed, 1 insertion(+), 1 deletion(-)
[batman@ip-172-31-2-182 practice_basics]$ git branch
  dev
* main
  release
```

```
[batman@ip-172-31-2-182 practice_basics]$ git push -u origin main
Enumerating objects: 11, done.
Counting objects: 100% (10/10), done.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (7/7), 742 bytes | 742.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:f-sid/practice_basics.git
   486a853..052fdb4  main -> main
branch 'main' set up to track 'origin/main'.
[batman@ip-172-31-2-182 practice_basics]$ |
```



The screenshot shows the GitHub web interface for the repository 'f-sid / practice_basics'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The left sidebar shows the file explorer with the following files: .gitignore, README.md, devops, linux, new.txt, sample.file, and sample.txt. The main area displays the commit history for the file 'passwd.text'. The most recent commit is by 'syedf' with the message 'added untrackable file'. The commit details show 1 line of code (1 loc) and 12 bytes. A badge indicates 'Code 55% faster with GitHub Copilot'.

13)make a commit and make that commit reset without savings changes.

```
[batman@ip-172-31-2-182 practice_basics]$ touch hello
[batman@ip-172-31-2-182 practice_basics]$ git add hello
[batman@ip-172-31-2-182 practice_basics]$ git commit -m "resetting a commit"
[main c926481] resetting a commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 hello
[batman@ip-172-31-2-182 practice_basics]$ git log -3
commit c926481e8974a1c9f300e89217a19021ccb8206f (HEAD -> main)
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:14:12 2024 +0000

    resetting a commit

commit 052fdb42e2e1cbe79e3a686e0453656975ae3436 (origin/main, origin/HEAD)
Merge: a3a24ed 486a853
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:06:57 2024 +0000

    Merge branch 'main' of github.com:f-sid/practice_basics

commit a3a24ed70706cbfb01d6ca03ed359b180fcb9d48
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 12:59:04 2024 +0000

    added untrackable file
```

```
nothing to commit, working tree clean
[batman@ip-172-31-2-182 practice_basics]$ git reset 052fdb42
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch main
Your branch is up to date with 'origin/main'.

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

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

14)Revert a committed commit to the older version.

```
[batman@ip-172-31-2-182 practice_basics]$ git revert a3a24ed707
[main a5e91a2] Revert "added untrackable file"
1 file changed, 1 insertion(+), 1 deletion(-)
[batman@ip-172-31-2-182 practice_basics]$ git log -3
commit a5e91a2a7c7a4573d0bf151955aaae2044647562 (HEAD -> main)
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:19:36 2024 +0000

    Revert "added untrackable file"

    This reverts commit a3a24ed70706cbfb01d6ca03ed359b180fcb9d48.

commit 0202bb0a48570101543a37adfe9c04c3fd9ac644
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:19:32 2024 +0000

    resetting a commit

commit 052fdb42e2e1cbe79e3a686e0453656975ae3436 (origin/main, origin/HEAD)
Merge: a3a24ed 486a853
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:06:57 2024 +0000

    Merge branch 'main' of github.com:f-sid/practice_basics
```


15)push a file to stash without savings the changes and work on another file.

```
[batman@ip-172-31-2-182 practice_basics]$ vi stash.txt
[batman@ip-172-31-2-182 practice_basics]$ git ststus
git: 'ststus' is not a git command. See 'git --help'.

The most similar command is
    status
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch release
Your branch is ahead of 'origin/release' by 2 commits.
  (use "git push" to publish your local commits)

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

nothing added to commit but untracked files present (use "git add" to track)
[batman@ip-172-31-2-182 practice_basics]$ git add .
[batman@ip-172-31-2-182 practice_basics]$ git status
On branch release
Your branch is ahead of 'origin/release' by 2 commits.
  (use "git push" to publish your local commits)

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

[batman@ip-172-31-2-182 practice_basics]$ git stash
Saved working directory and index state WIP on release: d4b5f33 Revert "added two files"
[batman@ip-172-31-2-182 practice_basics]$ ls
README.md  file1.txt  file2.txt  file3.txt  file4.txt  new.txt  passwd.txt
[batman@ip-172-31-2-182 practice_basics]$ vi new.txt
[batman@ip-172-31-2-182 practice_basics]$ git add .
[batman@ip-172-31-2-182 practice_basics]$ git commit -m "stash practise"
[release 57a8027] stash practise
1 file changed, 1 insertion(+)
```

16)undo the stash file and start working on that again.

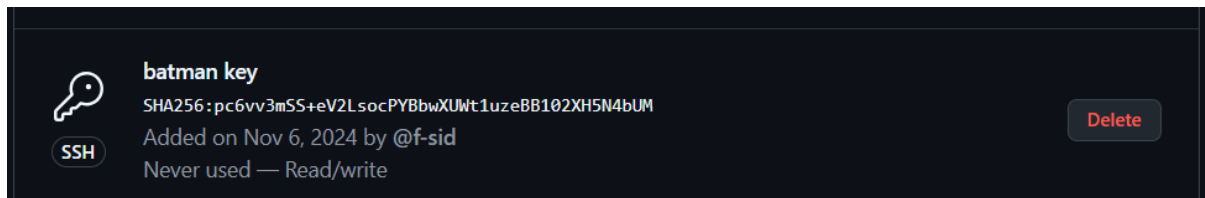
```
[batman@ip-172-31-2-182 practice_basics]$ git stash list
stash@{0}: WIP on release: d4b5f33 Revert "added two files"
[batman@ip-172-31-2-182 practice_basics]$ git stash pop
On branch release
Your branch is ahead of 'origin/release' by 3 commits.
  (use "git push" to publish your local commits)

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

Dropped refs/stash@{0} (14f4b958e73305ef3443b326531fd5cce876be5f)
[batman@ip-172-31-2-182 practice_basics]$ vi stash.txt
[batman@ip-172-31-2-182 practice_basics]$ cat stash.txt
new text
```

17) generate a ssh-keygen and configure into github.

```
[batman@ip-172-31-2-182 practice_basics]$ ssh-keygen -t rsa -C "syedfs97@outlook.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/batman/.ssh/id_rsa):
/home/batman/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/batman/.ssh/id_rsa
Your public key has been saved in /home/batman/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:pc6vv3mSS+eV2LsocPYBbwXUWt1uzeBB102XH5N4bUM syedfs97@outlook.com
The key's randomart image is:
+---[RSA 3072]-----+
|      ..o+E@|
|      ..=00|
|      . =.**|
|      o. . o *|
|      S o . .|
|      o. o +o .|
|      o+.+o.+|
|      o++oo .|
|      .o**o o.|
+---[SHA256]-----+
[batman@ip-172-31-2-182 practice_basics]$ cat /home/batman/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDbbfX5Y86xoQFFP6ZDUw0ns6iSjqKcg2tfTFLQX7r53s/3q
RdZPdXgtrYZRQ3uVaTHLIT/oyqB57tB2DkVipX57tnaDEtHR9nNl4F3TZdhgmIEdp8Uteqwo03FvpydqamWY
Tlone96A7wmi8FEidYuh2iqr9Yt4vaRlnR1e8xX0EjATZary2rxT9NrGQJd2SsrrkNwtp3B27IB4K+gLiQkN
m6tEEe5e0oQhAqE18aIQgnKVMxoM6d+vL/RjbKcm8qUbX46TEB1cf1IAV3VeMHKM5aZ0dPl+YhUTuUFjHRFr
i902cXIG1Gb5FgdXle4mrMiU8c4+uwoHHymfGJDxvhtS0riyKCgfpY/0B3fmU/f0SoLF8cFgx2ogMaXD8qF3
ixrS8laqvMbMnPo8gfhtI8g5TH/y2NZlq2RfxJb489o1q00Kww43J92r5immiy614kgZeeInkPwyp+gGZpNk
rmfXS/5c52n9K8GkSRYT0YSvVbQfyrQJQT0P3uxSIBZ8gbk= syedfs97@outlook.com
[batman@ip-172-31-2-182 practice_basics]$
```



19) basic understanding of .git file.

```
[batman@ip-172-31-2-182 .git]$ ls -ltr
total 68
drwxrwxr-x. 2 batman batman 21 Nov 6 10:44 info
drwxrwxr-x. 2 batman batman 16384 Nov 6 10:44 hooks
-rw-rw-r--. 1 batman batman 73 Nov 6 10:44 description
drwxrwxr-x. 2 batman batman 6 Nov 6 10:44 branches
-rw-rw-r--. 1 batman batman 112 Nov 6 10:44 packed-refs
drwxrwxr-x. 3 batman batman 30 Nov 6 10:44 logs
-rw-rw-r--. 1 batman batman 412 Nov 6 13:06 FETCH_HEAD
-rw-rw-r--. 1 batman batman 383 Nov 6 13:07 config
-rw-rw-r--. 1 batman batman 24 Nov 6 13:28 HEAD
-rw-rw-r--. 1 batman batman 41 Nov 6 13:42 ORIG_HEAD
-rw-rw-r--. 1 batman batman 15 Nov 6 13:44 COMMIT_EDITMSG
drwxrwxr-x. 5 batman batman 46 Nov 6 13:45 refs
drwxrwxr-x. 38 batman batman 16384 Nov 6 13:45 objects
-rw-rw-r--. 1 batman batman 761 Nov 6 13:45 index
-rw-rw-r--. 1 batman batman 41 Nov 6 13:45 AUTO_MERGE
```

20) Check all the logs of git.

```
commit 57a8027702e726b5389ea5b50899264f13d25b6 (HEAD -> release)  
Author: syedf <syedfs9@outlook.com>  
Date: Wed Nov 6 13:44:38 2024 +0000  
  
stash practise  
  
commit d4b5f3364d7860fdb5227fedbd7f6211b63e10dd  
Author: syedf <syedfs9@outlook.com>  
Date: Wed Nov 6 13:40:03 2024 +0000  
  
Revert "added two files"  
  
This reverts commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0.  
  
commit b12592772cd09a92cfd26bac7217306eafb2360  
Author: syedf <syedfs9@outlook.com>  
Date: Wed Nov 6 13:29:13 2024 +0000  
  
-amended this  
  
commit 32186734efa43a7320b66529ec83c2a5050518a8 (origin/release)  
Author: syedf <syedfs9@outlook.com>  
Date: Wed Nov 6 11:47:34 2024 +0000  
  
new file added in release  
  
commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0  
Author: syedf <syedfs9@outlook.com>  
Date: Wed Nov 6 10:46:36 2024 +0000  
  
added two files  
  
commit 9b51827fbe677774ada9cc295b222f34d0545f44  
Author: Farsaan Siddiqui <syedfs97@outlook.com>  
Date: Wed Nov 6 16:10:44 2024 +0530  
  
Create .gitignore  
  
commit 2d004f7087818b314f157076d3eb53fb3d231f9e  
Author: Farsaan Siddiqui <syedfs97@outlook.com>  
Date: Wed Nov 6 16:09:42 2024 +0530  
  
Update README.md  
  
commit 4726e7fd1cfa569b41355614fea247ba494ad7b9  
Author: Farsaan Siddiqui <syedfs97@outlook.com>  
Date: Wed Nov 6 16:04:03 2024 +0530  
  
Initial commit  
~  
~  
~  
~  
~  
~  
~  
~  
~  
~  
(END)
```

21)Rename the commit message

```
[batman@ip-172-31-2-182 practice_basics]$ git commit --amend
[release b125927] -amended this
Date: Wed Nov 6 13:29:13 2024 +0000
5 files changed, 6 insertions(+)
create mode 100644 file1.text
create mode 100644 file2.text
create mode 100644 file3.text
create mode 100644 file4.text
create mode 100644 passwd.text
[batman@ip-172-31-2-182 practice_basics]$ git log -3
commit b12592772cd09a92cfd26bac7217306eae6b2360 (HEAD -> release)
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 13:29:13 2024 +0000

    -amended this

commit 32186734efa43a7320b66529ec83c2a5050518a8 (origin/release)
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 11:47:34 2024 +0000

    new file added in release

commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 10:46:36 2024 +0000

    added two files
```

22)Merge multiple commits into single commit.

```
[batman@ip-172-31-2-182 practice_basics]$ git rebase
error: cannot rebase: Your index contains uncommitted changes.
error: Please commit or stash them.
[batman@ip-172-31-2-182 practice_basics]$ git stash
Saved working directory and index state WIP on release: 57a8027 stash practise
[batman@ip-172-31-2-182 practice_basics]$ git rebase
Current branch release is up to date.
[batman@ip-172-31-2-182 practice_basics]$ git rebase -i head3
fatal: invalid upstream 'head3'
[batman@ip-172-31-2-182 practice_basics]$ git rebase -i HEAD-3
fatal: invalid upstream 'HEAD-3'
[batman@ip-172-31-2-182 practice_basics]$ git rebase -i HEAD~4
[detached HEAD 4ae7eb0] new file added in release
Date: Wed Nov 6 11:47:34 2024 +0000
6 files changed, 7 insertions(+)
create mode 100644 file1.text
rename devops => file2.text (100%)
rename linux => file3.text (100%)
create mode 100644 file4.text
create mode 100644 new.txt
create mode 100644 passwd.text
Successfully rebased and updated refs/heads/release.
[batman@ip-172-31-2-182 practice_basics]$ git log -3
commit 4ae7eb0e0acd5f51621821bad749313653a28e496 (HEAD -> release)
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 11:47:34 2024 +0000

    new file added in release

    -amended this

    Revert "added two files"

    This reverts commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0.

    stash practise

commit 1ad9edaf1d67f804e00afe6b08f0ea465b4ca6e0
Author: syedf <syedfs9@outlook.com>
Date: Wed Nov 6 10:46:36 2024 +0000

    added two files

commit 9b51827f6e677774ada9cc295b222f34d0545f44
Author: Farsaan Siddiqui <syedfs97@outlook.com>
Date: Wed Nov 6 16:10:44 2024 +0530

    Create .gitignore
[batman@ip-172-31-2-182 practice_basics]$ |
```