

GIT COMMANDS

- Git init
- Git clone <repo>
- Git config user.name <name>
- Git config user.email <email>
- Git status
- Git log -<limit>

```
siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git init
Initialized empty Git repository in C:/Users/Siaran/InfoBell/CDAC-Batch-2-Training/.git/

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git clone https://github.com/sushmithakongi/CDAC-Batch-2-Training.git
fatal: destination path 'CDAC-Batch-2-Training' already exists and is not an empty directory.

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git config user.email "siaranpatil193@gmail.com"

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git config user.name "Siaran Patil"

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git status
On branch Siaran
Your branch is up to date with 'origin/Siaran'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  CDAC-Batch-2-Training/

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

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git log -5
commit 4e2f2f6d12e50569707f1a1de732a8b0b1dc (HEAD -> Siaran, origin/Siaran)
Author: Siaran Patil <siaranpatil193@gmail.com>
Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

commit cdb1fe6d29f52ed7336f74f563cc63ddff177
Author: Siaran Patil <siaranpatil193@gmail.com>
Date: Tue Apr 11 14:09:01 2023 +0530

    hi

commit 4bb6faff2a27554a2a189c1e74fa670ebc1dc9
Author: Siaran2711 <103194486@Siaran2711Users.noreply.github.com>
Date: Tue Apr 11 14:02:46 2023 +0530

    Delete 10th April'23

commit 2ea4686c6442c51ca3d7a57cxa5f19f94f0549ab
Author: Siaran2711 <103194486@Siaran2711Users.noreply.github.com>
Date: Tue Apr 11 14:02:06 2023 +0530

    Add files via upload

commit 828d51ca7aaddf687d51ed77927a78dbb5eb26
Author: Siaran2711 <103194486@Siaran2711Users.noreply.github.com>
Date: Tue Apr 11 14:01:07 2023 +0530

    Create 10th April'23
```

- Git diff
- Git log --oneline

```
Author: Siaran2711 <103194486@Siaran2711Users.noreply.github.com>
Date: Tue Apr 11 14:01:07 2023 +0530

    Create 10th April'23

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git diff

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git log --oneline
fatal: ambiguous argument 'oneline': unknown revision or path not in the working tree.
Use "--" to separate paths from revisions, like this:
"git <command> <revision>... -- <files>..."

siaran@DSKTOP-M3T5U31 MINGW64 ~/InfoBell/CDAC-Batch-2-Training (Siaran)
$ git log --oneline
%42e24 (HEAD -> Siaran, origin/Siaran) alpha added
2db21e hi
4bb6fa Delete 10th April'23
2ea468 Add files via upload
09d516 Create 10th April'23
33a0725 Delete Siaran Patil
3e1279 Create Siaran Patil
3d5f17b Have a Great day
09dca4 Hey InfoBell!
2035051 (Siaran) Hello Everyone
0984d63 welcome to another program
3356ff6 hello world
80dfc27 (nikhil) Update README.md
09846a Merge pull request #11 from sushmithakongi/Anup_Kore
2c5bd93 File modified and temp created
0ffec10 Create README.md
0729a5 Delete README.md
83cc33c Create README.md
245306 Delete Hitendra.Mhatre
3d1ef58 Create Hitendra.Mhatre
7ebaf68 Delete Anup_Kore.java
a1e7236 Merge pull request #10 from sushmithakongi/Anup_Kore
3337fcc Anup Folder Creation
0207613 Delete Shubham_gov
7067fea Delete shubham_gov
74d315 Create Shubham_gov
3776002 Merge pull request #9 from sushmithakongi/shubham
5946161 Merge pull request #8 from sushmithakongi/Anup
6c3143 Merge pull request #7 from sushmithakongi/varun
73e0b22 Add files via upload
0f4b7c1 Add files via upload
a9efc3b Assignment 1 by varun
2487bf0 Merge pull request #6 from sushmithakongi/shubham
3d86de Merge pull request #5 from sushmithakongi/yogesh_Balskar
e0dabb6 hello InfoBell!
0339e2f (origin/yogesh.Balskar) Screenshot File updated and file rename
04ff7f6 Merge pull request #4 from sushmithakongi/varun
a5e82af Screenshot File updated and file rename
a5e3a5 Merge pull request #3 from sushmithakongi/yachwant
3e3f9ad Screenshot File updated and file rename
3d6d807 hello InfoBell!
3e1276 Merge pull request #2 from sushmithakongi/shubham
```

- Git log -p

```

b30fc27 (nikhil) Update README.md
0584e0a Merge pull request #11 from sushmithakongi/Anup_Kore
c26db03 file modified and tags created
3ffec10 Create README.md
9925d45 Delete README.md
00ec31c Create README.md
cc45306 Delete Hitendra_Mhatre
1d1ef58 Create Hitendra_Mhatre
2b3af68 Delete Anup_Kore.java
a8f0736 Merge pull request #10 from sushmithakongi/Anup_Kore
0337cc Anup Folder Creation
f828e53 Delete Shubham.java
0b07fe Delete Shubham_Bal
23d4115 Create Shubham_Bal
5b76002 Merge pull request #9 from sushmithakongi/shubham
1980161 Merge pull request #8 from sushmithakongi/Anup
0c31143 Merge pull request #7 from sushmithakongi/varun
71e0b22 Add Files via upload
87ab7c1 Add Files via upload
49ef03b Assignment 1 by varun
240fb70 Merge pull request #6 from sushmithakongi/shubham
8c161e6 Merge pull request #5 from sushmithakongi/Yogesh_Baiskar
eeda6b6 hello infobell
072962f (origin/Yogesh_Baiskar) Screenshot file updated and file rename
0bfff66 Merge pull request #4 from sushmithakongi/varun
afe824f Screenshot File Updated and file rename
6e3e1a5 Merge pull request #3 from sushmithakongi/Yashwant
3e3ff9ad Screenshot File Updated and file rename
3d6db07 hello infobell
3ae2716 Merge pull request #2 from sushmithakongi/shubham
38f5aef Merge pull request #1 from sushmithakongi/Anup
1700716c hello infobell
83d9f2b Screenshot File Updated
ac0f2b2 First commit
fab444f First commit by varun 10/04/2022
4beae55 Anup First Commit 10/04/2023
897307a Hello from Yogesh
023ec05 Added git practice snapshots pdf
47f86180 Updated nikhil branch with new Hello.java file
8b809dc added a text file Hello.java
c3e2b1b updated j value to 20
54c8e0d Java File created for addition

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git log -p
commit 9ca2e24 (HEAD -> Simran, origin/Simran)
Author: Simran Patil <simranpatil936@gmail.com>
Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

diff --git a/alpha.py b/alpha.py
new file mode 100644
index 0000000..e69de29
commit c2ab1f6d39f52ed7136f74f563cc033d4ff377
Author: Simran Patil <simranpatil936@gmail.com>
Date: Tue Apr 11 14:09:01 2023 +0530

```

- Git branch
- Git fetch
- Git diff HEAD
- Git status
- Git relog

```

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git branch
* Simran
  nikhil

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git fetch
remote: Enumerating objects: 166, done.
remote: Counting objects: 100% (164/164), done.
remote: Compressing objects: 100% (119/119), done.
remote: Total 166 (delta 31), reused 149 (delta 20), pack-reused 2
Receiving objects: 100% (166/166), 6.89 MiB | 2.56 MiB/s, done.
Resolving deltas: 100% (31/31), completed with 2 local objects.
From https://github.com/sushmithakongi/CDAC-Batch-2-Training
 cc2d5d2..8109f40  Anup_Kore -> origin/Anup_Kore
+ 8e22a94..5e35d7b  Hitendra_Mhatre -> origin/Hitendra_Mhatre (forced update)
 8907689..d6c3899  Yashwantdemo -> origin/Yashwantdemo
 58bd01f..41518a6  Yogesh -> origin/Yogesh
+ [new branch]  devesh -> origin/devesh
+ c807c0b..4a23d80  nikhil -> origin/nikhil
 f10c379..5521fef  pratik -> origin/pratik
 d6c4b41..818f4fe  saurabh -> origin/saurabh
 7aecd54..7eddasa  shruti -> origin/shruti
+ [new branch]  shub -> origin/shub
 9db4700..c044fa6  shubham -> origin/shubham
 566dc4d..786a9fe  sumakhy -> origin/sumakhy
 7d25f80..c52dce2  varun -> origin/varun
+ [new tag]  v1.0 -> v1.0
+ [new tag]  v1.0 -> v1.0

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git diff HEAD

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git status
git: 'status' is not a git command. See 'git --help'.

The most similar command is
status

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git status
On branch Simran
Your branch is up to date with 'origin/Simran'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    CDAC-Batch-2-Training/

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

$ simran@DESKTOP-MITS031 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git relog
9ca2e24 (HEAD -> Simran, origin/Simran) HEAD[0]: reset: moving to HEAD
9ca2e24 (HEAD -> Simran, origin/Simran) HEAD[1]: commit: alpha added
c0b1fe HEAD[2]: commit: hi

```

- `Git --amend`
- `Git log --stat`

```
96a2024 HEAD -> Sirran, origin/Sirran HEAD(1): commit: alpha added
cdeb1fe HEAD(2): commit: hi
4b06f6f HEAD(3): pull origin Sirran: Fast-forward
965f17b HEAD(4): commit: Have a Great day
90e0ca8 HEAD(5): commit: Hey Infobell
2035053 (Sirran) HEAD(6): checkout: moving from Sirran to Sirran
2035053 (Sirran) HEAD(7): commit: Hello Everyone
098c463 HEAD(8): commit: Welcome to another program
c56dfc27 HEAD(9): commit: Hello world
96dfc27 (nikhil) HEAD(10): reset: moving to HEAD
96dfc27 (nikhil) HEAD(11): checkout: moving from Sirran to Sirran
96dfc27 (nikhil) HEAD(12): checkout: moving from nikhil to Sirran
96dfc27 (nikhil) HEAD(13): Clone: from https://github.com/sushmithakongi/CDAC-Batch-2-Training.git

$ sirran@DESKTOP-MITSUJI MINGW64 ~/Infobell/CDAC-Batch-2-Training (Sirran)
$ git commit --amend
[Sirran 3d4a2e1] alpha added
Date: Tue Apr 11 14:46:09 2023 +0530
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 alpha.py

$ sirran@DESKTOP-MITSUJI MINGW64 ~/Infobell/CDAC-Batch-2-Training (Sirran)
$ git log --stat
commit 3d4a2e10d92529579515d23d2ba78c2c20782c51 (HEAD -> Sirran)
Author: Sirran Patil <sirranpatil1936@gmail.com>
Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

alpha.py | 0
1 file changed, 0 insertions(+), 0 deletions(-)

commit cdeb1fe6d39f52ed7336f74f563cc633d0ff377
Author: Sirran Patil <sirranpatil1936@gmail.com>
Date: Tue Apr 11 14:09:01 2023 +0530

    hi

max.py | 6 +----
1 file changed, 6 deletions(-)

commit 46bdfaff3a2755a2a24189c1e74fa670a9e51de9
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:02:46 2023 +0530

    Delete 10th April'23

Sirran Patil/10th April'23 | 1 -
1 file changed, 1 deletion(-)

commit 2ea686e6442c51ce367c57ca45f10f94f0549ab
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:02:06 2023 +0530

    Add Files via upload

Sirran Patil/10th April.pdf | Bin 0 -> 30506? bytes
1 file changed, 0 insertions(+), 0 deletions(-)
```

- `Git log grep = "<pattern>"`

```
$ sirran@DESKTOP-MITSUJI MINGW64 ~/Infobell/CDAC-Batch-2-Training (Sirran)
$ git log --grep="a"
commit 3d4a2e10d92529579515d23d2ba78c2c20782c51 (HEAD -> Sirran)
Author: Sirran Patil <sirranpatil1936@gmail.com>
Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

commit 2ea686e6442c51ce367c57ca45f10f94f0549ab
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:02:06 2023 +0530

    Add Files via upload

commit 828d516a7ad8f682d51ed7b927e78d0b25eb26
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:01:07 2023 +0530

    Create 10th April'23

commit 55a0f25e711e0a128630a7f337769d283b3c0c17
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:00:38 2023 +0530

    Delete Sirran Patil

commit c3c1279f50a53dcbcbdd7ae1902057e12f0a5c2
Author: Sirran2711 <103194486@Sirran2711@users.noreply.github.com>
Date: Tue Apr 11 14:00:13 2023 +0530

    Create Sirran Patil

commit 565f17bb3e278d9957e4c45c42c26d4f98529966
Author: Sirran Patil <sirranpatil1936@gmail.com>
Date: Tue Apr 11 13:17:11 2023 +0530

    Have a Great day

commit 098c46311595f89877cf4b39fac7adb960057a9
Author: Sirran Patil <sirranpatil1936@gmail.com>
Date: Tue Apr 11 12:19:42 2023 +0530

    Welcome to another program

commit b0dfc277b3d85342e7936cb7b429245ea70681a5 (nikhil)
Author: Hitendra@hatre <i16960684@Hitendra@hatre@users.noreply.github.com>
Date: Mon Apr 10 19:22:18 2023 +0530

    Update README.md

commit 0584e0aded3434b42491118eabf20c112b71089
Merge: 3fFee10 c2c6bd3
Author: Anup Kore <57667321@anupkore@users.noreply.github.com>
Date: Mon Apr 10 19:18:11 2023 +0530

    Merge pull request #11 from sushmithakongi/Anup_Kore

    File modified and tags created
```

- Git log --<filename>

```

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git log alpha.py
commit 3d4a2e10d92529579515d23d2ba78e2c20782c51 (HEAD -> Simran)
Author: Simran Patil <simranpatil1936@gmail.com>
Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git log --graph --decorate
* commit 3d4a2e10d92529579515d23d2ba78e2c20782c51 (HEAD -> Simran)
  Author: Simran Patil <simranpatil1936@gmail.com>
  Date: Tue Apr 11 14:46:09 2023 +0530

    alpha added

* commit cdeb1feaf6d39f52ed7336f74f563cc633ddff377
  Author: Simran Patil <simranpatil1936@gmail.com>
  Date: Tue Apr 11 14:09:01 2023 +0530

    hi

* commit 46b6faff3a27554a2a4189c1e74fa670a9e51dc9
  Author: Simran2711 <103194486@simran2711@users.noreply.github.com>
  Date: Tue Apr 11 14:02:46 2023 +0530

    Delete 10th April '23

* commit 2ea6886c6442c51ce367e57ca5f19f94f0549ab
  Author: Simran2711 <103194486@simran2711@users.noreply.github.com>
  Date: Tue Apr 11 14:02:06 2023 +0530

    Add files via upload

* commit 828d516a78ad8f682d33ed27b927e78db25eb26
  Author: Simran2711 <103194486@simran2711@users.noreply.github.com>
  Date: Tue Apr 11 14:01:07 2023 +0530

    Create 10th April '23

* commit 55a0f25e711e0a128630a7f37769d283b3c0c17
  Author: Simran2711 <103194486@simran2711@users.noreply.github.com>
  Date: Tue Apr 11 14:00:38 2023 +0530

    Delete Simran Patil

* commit c3c12779f50a53dc84cdd7ae1902057e12f0a5c2
  Author: Simran2711 <103194486@simran2711@users.noreply.github.com>
  Date: Tue Apr 11 14:00:13 2023 +0530

    Create Simran Patil

* commit 565f17bb3e278d9957e4c45c42c604f98529966
  Author: Simran Patil <simranpatil1936@gmail.com>
  Date: Tue Apr 11 13:17:11 2023 +0530

    Have a Great day

```

- Git reset
- Git rebase -i
- Git merge <branch>
- Git clean -f

```

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git reset

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git rebase -i
warning: skipped previously applied commit 3d4a2e1
hint: use --replay-cherry-picks to include skipped commits
hint: Disable this message with "git config advice.skippedCherryPicks false"
Successfully rebased and updated refs/heads/Simran.

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git merge Simran
Already up to date.

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git checkout -b Simran
fatal: a branch named 'Simran' already exists

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git clean -n

simran@DESKTOP-W1T5D31 MINGW64 ~/Infobell/CDAC-Batch-2-Training (Simran)
$ git clean -f

```