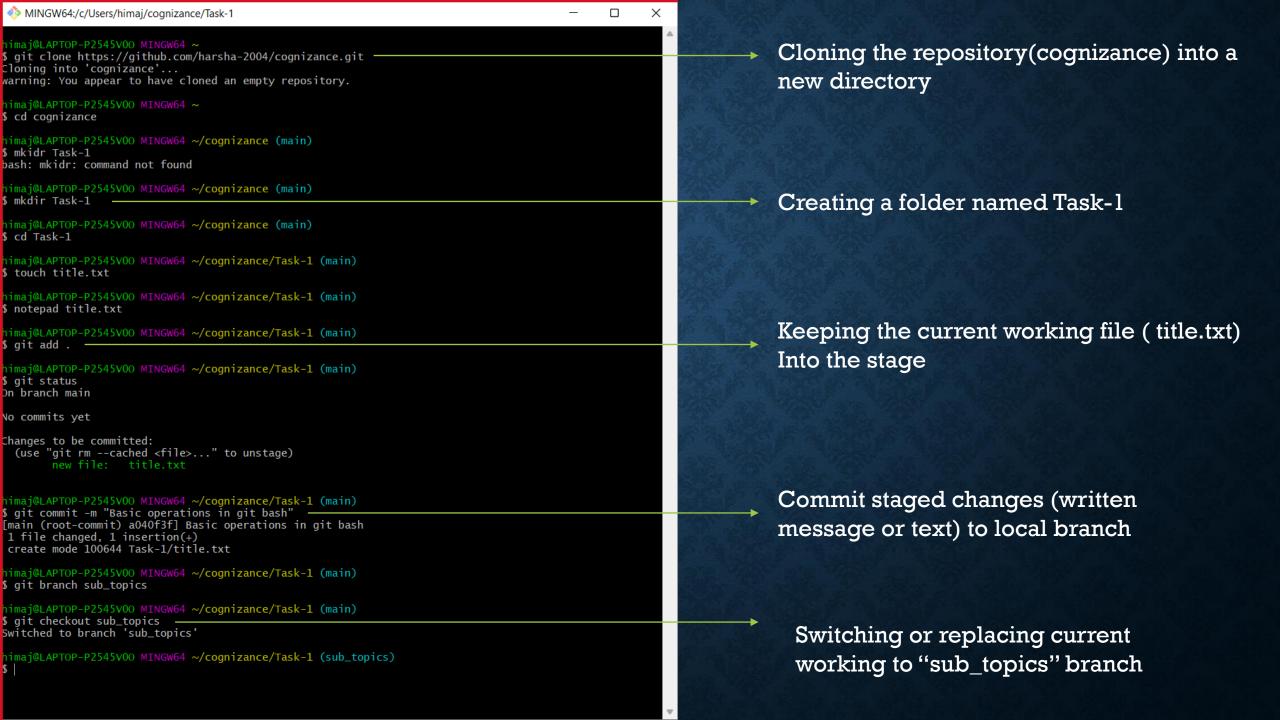
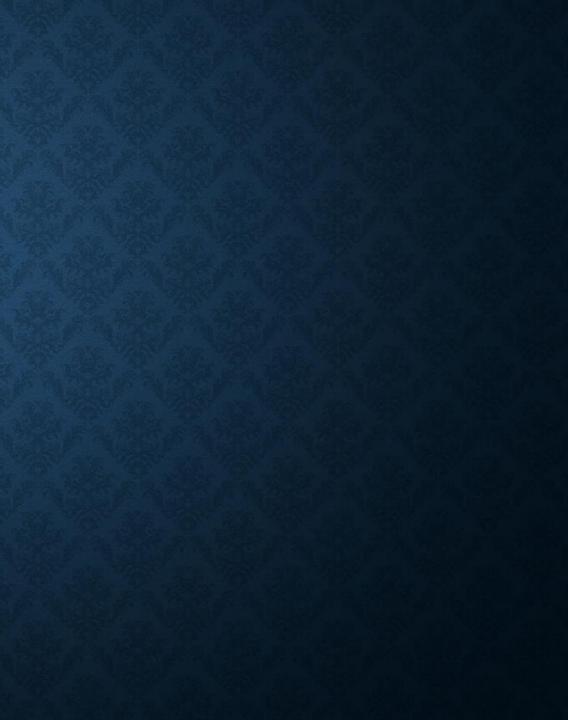
```
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
$ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttppath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/himaj/.gitconfig user.name=harsha-2004
file:C:/Users/himaj/.gitconfig_user.email=ch.en.u4aie21104@ch.students.amrita.edu
file:C:/Users/himaj/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/himaj/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/himaj/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/himaj/.gitconfig filter.lfs.required=true
file:.git/config
                       core.repositoryformatversion=0
file:.git/config
                       core.filemode=false
file:.git/config
                       core.bare=false
file:.git/config
                       core.logallrefupdates=true
file:.git/config
                       core.symlinks=false
file:.git/config
                       core.ignorecase=true
                       remote.origin.url=https://github.com/harsha-2004/cognizance.git
file:.git/config
                       remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config
file:.git/config
                        branch.main.remote=origin
file:.git/config
                       branch.main.merge=refs/heads/main
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
```

Git config --list --show-origin



```
MINGW64:/c/Users/himaj/cognizance/Task-1
                                                                                                \times
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
touch sub_title.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
notepad sub_title.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git add .
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git add .
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git commit -m "1.git add
2.git checkout
3.git checkout -b
4.git clone
5.git commit
5.git commit -a
7.git fetch
3.git merge
9.git pull
10.git push
11.git reset
12.git rebase
[sub_topics 8145f78] 1.git add 2.git checkout 3.git checkout -b 4.git clone 5.git commit 6.git commit
a 7.git fetch 8.git merge 9.git pull 10.git push 11.git reset 12.git rebase
1 file changed, 12 insertions(+)
create mode 100644 Task-1/sub_title.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git status
On branch sub_topics
nothing to commit, working tree clean
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
$ git log
 ommit 8145f78d0fae87e3278317ae991b7d66138838c4 (HEAD -> sub_topics)
Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 12:09:23 2022 +0530
   1.git add
   2.git checkout
   3.git checkout -b
   4.git clone
   5.git commit
   6.git commit -a
   7.git fetch
   8.git merge
   9.git pull
   10.git push
   11.git reset
   12.git rebase
commit a040f3f37639a056ae790260c5db605154262c45 (main)
```



```
MINGW64:/c/Users/himaj/cognizance/Task-1
                                                                                                Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 11:53:55 2022 +0530
   Basic operations in git bash
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
igit merge ∧C
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git checkout main
Switched to branch 'main'
Your branch is based on 'origin/main', but the upstream is gone.
 (use "git branch --unset-upstream" to fixup)
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git branch --unset-upstream
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git merge 8145f78d0fae87e3278317ae991b7d66138838c4
Jpdating a040f3f..8145f78
Fast-forward
Task-1/sub_title.txt | 12 ++++++++++
1 file changed, 12 insertions(+)
create mode 100644 Task-1/sub_title.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git add .
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git status
On branch main
nothing to commit, working tree clean
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git merge 8145f78d0fae87e3278317ae991b7d66138838c4
Already up to date.
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git status
On branch main
nothing to commit, working tree clean
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
ommit 8145f78d0fae87e3278317ae991b7d66138838c4 (HEAD -> main, sub_topics)
Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 12:09:23 2022 +0530
   1.git add
   2.git checkout
   3.git checkout -b
   4.git clone
   5.git commit
   6.git commit -a
   7.git fetch
   8.git merge
   9.git pull
```

Merges files from a given branch (sub\_topics) into the current branch (main).

```
10.git push
   11.git reset
   12.git rebase
ommit a040f3f37639a056ae790260c5db605154262c45
Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 11:53:55 2022 +0530
   Basic operations in git bash
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (main)
git checkout -b simple -
Switched to a new branch 'simple'
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
touch sam.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
notepad sam.txt
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
git commit -a
on branch simple
Intracked files:
 (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
§ git add .
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
git commit -a
Aborting commit due to empty commit message.
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (simple)
git status
on branch simple
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
       new file: sam.txt
```

MINGW64:/c/Users/himaj/cognizance/Task-1

Creates a new local branch (simple) from the current branch's tip (main).

```
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git status
On branch sub_topics
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
       modified: title.txt
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git reset
Jnstaged changes after reset:
       Task-1/title.txt
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
git status
On branch sub_topics
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)
no changes added to commit (use "git add" and/or "git commit -a")
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance/Task-1 (sub_topics)
```

MINGW64:/c/Users/himaj/cognizance/Task-1

reset Makes the current branch(sub\_topics) point to some specific revision

```
MINGW64:/c/Users/himaj/cognizance
                                                                                                       nimaj@LAPTOP-P2545V00 MINGW64 ~
cd cognizance
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
bash: giti: command not found
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git log
ommit 8145f78d0fae87e3278317ae991b7d66138838c4 (HEAD -> main, sub_topics)
Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 12:09:23 2022 +0530
   1.git add
   2.git checkout
   3.git checkout -b
   4.git clone
   5.git commit
   6.git commit -a
   7.git fetch
   8.git merge
   9.git pull
   10.git push
   11.git reset
   12.git rebase
 ommit a040f3f37639a056ae790260c5db605154262c45
Author: harsha-2004 <ch.en.u4aie21104@ch.students.amrita.edu>
Date: Tue Feb 15 11:53:55 2022 +0530
   Basic operations in git bash
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git fetch
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git fetch
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 723 bytes | 14.00 KiB/s, done.
From https://github.com/harsha-2004/cognizance
  08fb02a..7142b8d main
                                  -> origin/main
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
```

Downloads changes from a remote repository into the local clone.

```
NINGW64:/c/Users/himaj/cognizance
                                                                                                08fb02a..7142b8d main
                                -> origin/main
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git rebase sub_topic
fatal: invalid upstream 'sub_topic'
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git checkout sub_topic
error: pathspec 'sub_topic' did not match any file(s) known to git
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (main)
git checkout sub_topics
Switched to branch 'sub_topics'
       Task-1/title.txt
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
git rebase sub_topics
error: cannot rebase: Your index contains uncommitted changes.
error: Please commit or stash them.
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
git status
On branch sub_topics
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
       modified: Task-1/title.txt
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
git commit -m "1.git add
.git checkout
.git checkout -b
l.git clone
                                                                          Rebase
.git commit
.git commit -a
'.git fetch
.git merge
ogit pull
10.git push
11.git reset
12.git rebase
[sub_topics 9fcba4b] 1.git add 2.git checkout 3.git checkout -b 4.git clone 5.git commit 6.git commit
a 7.git fetch 8.git merge 9.git pull 10.git push 11.git reset 12.git rebase
1 file changed, 2 insertions(+), 1 deletion(-)
himaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
git rebase sub_topics
Current branch sub_topics is up to date.
nimaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
git status
On branch sub_topics
nothing to commit, working tree clean
imaj@LAPTOP-P2545V00 MINGW64 ~/cognizance (sub_topics)
```

Integrates changes from one branch into another. It is an alternative to the better known "merge" command.

Fetches remote changes on the current branch into the local clone, and merges them into the current working files.