***Version Control System - GIT AND GIT HUB***

**$ git config --global user.name "sumit mote"**

**$ git config --global user.email "sumit.mote@aimdek.com"**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task

**$ echo "# gittask" >> README.md**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task

**$ ls**

README.md

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task (master)

**$ git clone https://github.com/sumitmote/gittask.git**

Cloning into 'gittask'...

warning: You appear to have cloned an empty repository.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task (master)

**$ git remote add origin** [**https://github.com/sumitmote/gittask.git**](https://github.com/sumitmote/gittask.git)

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git init**

Reinitialized existing Git repository in C:/Users/Sumit/Desktop/GIT\_Task/gittask/.git/

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

No commits yet

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

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

$ touch index.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

No commits yet

Untracked files:

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

index.html

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

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "index.html file added"**

On branch master

Initial commit

Untracked files:

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

index.html

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

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git add index.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "index.html file added"**

[master (root-commit) 2567782] index.html file added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 index.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

$ touch home.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

$ touch address.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ touch sidepanel.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is up to date with 'origin/master'.

Untracked files:

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

address.html

home.html

sidepanel.html

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

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git add -A**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "three files added"**

[master c4ca611] three files added

3 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 address.html

create mode 100644 home.html

create mode 100644 sidepanel.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is ahead of 'origin/master' by 1 commit.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git push**

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (2/2), 265 bytes | 265.00 KiB/s, done.

Total 2 (delta 0), reused 0 (delta 0), pack-reused 0

To https://github.com/sumitmote/gittask.git

2567782..c4ca611 master -> master

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log**

commit c4ca6111fa4833adb2fd2b10c006b1aea3259dfa (HEAD -> master, origin/master)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:21:03 2021 +0530

three files added

commit 25677824baadf65a0207147c7c1d23fb69dcc03d

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:09:16 2021 +0530

index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

$ touch style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git add style.css**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "stylesheet file added"**

[master 1a02038] stylesheet file added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git push origin master**

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (2/2), 263 bytes | 263.00 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.

To https://github.com/sumitmote/gittask.git

c4ca611..1a02038 master -> master

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log**

commit 1a02038e6f9d997b8353b0bdceee28a4716075ec (HEAD -> master, origin/master)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:24:40 2021 +0530

stylesheet file added

commit c4ca6111fa4833adb2fd2b10c006b1aea3259dfa

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:21:03 2021 +0530

three files added

commit 25677824baadf65a0207147c7c1d23fb69dcc03d

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:09:16 2021 +0530

index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git pull https://github.com/sumitmote/gittask.git**

From https://github.com/sumitmote/gittask

\* branch HEAD -> FETCH\_HEAD

Already up to date.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git branch**

\* master

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git branch main**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git checkout main**

Switched to branch 'main'

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git log -3**

commit 1a02038e6f9d997b8353b0bdceee28a4716075ec (HEAD -> main, origin/master, master)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:24:40 2021 +0530

stylesheet file added

commit c4ca6111fa4833adb2fd2b10c006b1aea3259dfa

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:21:03 2021 +0530

three files added

commit 25677824baadf65a0207147c7c1d23fb69dcc03d

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:09:16 2021 +0530

index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git branch**

\* main

master

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ touch alternate.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git status**

On branch main

Untracked files:

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

alternate.html

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

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git add .**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

$ **git commit -m "alterante html added"**

[main 1860a28] alterante html added

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 alternate.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

$ **git status**

On branch main

nothing to commit, working tree clean

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git push origin main**

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Delta compression using up to 4 threads

Compressing objects: 100% (2/2), done.

Writing objects: 100% (2/2), 236 bytes | 236.00 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 'main' on GitHub by visiting:

remote: https://github.com/sumitmote/gittask/pull/new/main

remote:

To https://github.com/sumitmote/gittask.git

\* [new branch] main -> main

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git checkout master**

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git merge main**

Updating 1a02038..1860a28

Fast-forward

alternate.html | 0

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 alternate.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log**

commit 1860a2875b3cb5ce69a3e2c44a37269317192ac0 (HEAD -> master, origin/main, main)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:33:38 2021 +0530

alterante html added

commit 1a02038e6f9d997b8353b0bdceee28a4716075ec (origin/master)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:24:40 2021 +0530

stylesheet file added

commit c4ca6111fa4833adb2fd2b10c006b1aea3259dfa

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:21:03 2021 +0530

three files added

commit 25677824baadf65a0207147c7c1d23fb69dcc03d

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:09:16 2021 +0530

index.html file added

**$ git log -n 1**

commit 1860a2875b3cb5ce69a3e2c44a37269317192ac0 (HEAD -> master, origin/main, main)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:33:38 2021 +0530

alterante html added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log --since=2021-06-05**

commit 1860a2875b3cb5ce69a3e2c44a37269317192ac0 (HEAD -> master, origin/main, main)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:33:38 2021 +0530

alterante html added

commit 1a02038e6f9d997b8353b0bdceee28a4716075ec (origin/master)

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:24:40 2021 +0530

stylesheet file added

commit c4ca6111fa4833adb2fd2b10c006b1aea3259dfa

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:21:03 2021 +0530

three files added

commit 25677824baadf65a0207147c7c1d23fb69dcc03d

Author: sumit mote <sumit.mote@aimdek.com>

Date: Tue Aug 3 19:09:16 2021 +0530

index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log --until=2021-07-11**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log --author=”sumit”**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log --grep= ”initial”**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

$ vi address.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ cat address.html**

<html>

<head>

<title>Address Tab</title>

</head>

</html>

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git diff address.html**

warning: LF will be replaced by CRLF in address.html.

The file will have its original line endings in your working directory

**diff --git a/address.html b/address.html**

**index e69de29..24b9c2a 100644**

**--- a/address.html**

**+++ b/address.html**

@@ -0,0 +1,5 @@

+<html>

+ <head>

+ <title>Address Tab</title>

+ </head>

+</html>

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git add .**

warning: LF will be replaced by CRLF in address.html.

The file will have its original line endings in your working directory

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git diff --staged**

**diff --git a/address.html b/address.html**

**index e69de29..24b9c2a 100644**

**--- a/address.html**

**+++ b/address.html**

@@ -0,0 +1,5 @@

+<html>

+ <head>

+ <title>Address Tab</title>

+ </head>

+</html>

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git diff --cached**

**diff --git a/address.html b/address.html**

**index e69de29..24b9c2a 100644**

**--- a/address.html**

**+++ b/address.html**

@@ -0,0 +1,5 @@

+<html>

+ <head>

+ <title>Address Tab</title>

+ </head>

+</html>

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ ls**

address.html alternate.html home.html index.html sidepanel.html style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git rm alternate.html**

rm 'alternate.html'

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ ls**

address.html home.html index.html sidepanel.html style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "remove alternate.html"**

[master 05d54c1] remove alternate.html

2 files changed, 5 insertions(+)

delete mode 100644 alternate.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git reflog**

05d54c1 (HEAD -> master) HEAD@{0}: commit: remove alternate.html

1860a28 (origin/main, main) HEAD@{1}: merge main: Fast-forward

1a02038 (origin/master) HEAD@{2}: checkout: moving from main to master

1860a28 (origin/main, main) HEAD@{3}: commit: alterante html added

1a02038 (origin/master) HEAD@{4}: checkout: moving from master to main

1a02038 (origin/master) HEAD@{5}: commit: stylesheet file added

c4ca611 HEAD@{6}: commit: three files added

2567782 HEAD@{7}: Branch: renamed refs/heads/master to refs/heads/master

2567782 HEAD@{9}: commit (initial): index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git log --oneline**

05d54c1 (HEAD -> master) remove alternate.html

1860a28 (origin/main, main) alterante html added

1a02038 (origin/master) stylesheet file added

c4ca611 three files added

2567782 index.html file added

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git reset 05d54c1**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ echo "Git stash tutorial." >> example.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ ls**

address.html example.html home.html index.html sidepanel.html style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ cat example.html**

Git stash tutorial.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ echo "Updated git stash tutorial." >> example.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git stash**

warning: LF will be replaced by CRLF in example.html.

The file will have its original line endings in your working directory

Saved working directory and index state WIP on master: a032528 Example file commit

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ rm example.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -am "updated the file"**

[master 5366dd5] updated the file

1 file changed, 1 deletion(-)

delete mode 100644 example.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ ls**

address.html home.html index.html sidepanel.html style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git stash pop**

CONFLICT (modify/delete): example.html deleted in Updated upstream and modified in Stashed changes. Version Stashed changes of example.html left in tree.

The stash entry is kept in case you need it again.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ ls**

address.html example.html home.html index.html sidepanel.html style.css

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ cat example.html**

Git stash tutorial.

Updated git stash tutorial.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git add example.html**

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is ahead of 'origin/master' by 4 commits.

(use "git push" to publish your local commits)

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: example.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git commit -m "updated file example recovered"**

[master 41df6e7] updated file example recovered

1 file changed, 2 insertions(+)

create mode 100644 example.html

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is ahead of 'origin/master' by 5 commits.

(use "git push" to publish your local commits)

nothing to commit, working tree clean

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git push**

Enumerating objects: 12, done.

Counting objects: 100% (12/12), done.

Delta compression using up to 4 threads

Compressing objects: 100% (8/8), done.

Writing objects: 100% (10/10), 908 bytes | 454.00 KiB/s, done.

Total 10 (delta 4), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (4/4), completed with 1 local object.

To https://github.com/sumitmote/gittask.git

1a02038..41df6e7 master -> master

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git status**

On branch master

Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git merge main**

Already up to date.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git merge master**

Already up to date.

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (master)

**$ git checkout main**

Switched to branch 'main'

Sumit@DESKTOP-EDFP81M MINGW64 ~/Desktop/GIT\_Task/gittask (main)

**$ git merge master**

Updating 1860a28..41df6e7

Fast-forward

address.html | 5 +++++

alternate.html | 0

example.html | 2 ++

3 files changed, 7 insertions(+)

delete mode 100644 alternate.html

create mode 100644 example.html