**Aim -** Demonstration of various git operations on local and remote

repository using git cheat-sheet.

**Theory –**

Some git commands are –

1. **git --version**: Displays the installed version of Git.
2. **mkdir <dir name>:** Creates a new directory named.
3. **git init :** Initialize the new git repository in the current directory.
4. **nano <file name> :** Opens the nano text editor to create or edit the file.
5. **git status :** Shows the status of the working directory and staging area, including untracked files.
6. **git add –all :** Adds all changes in the working directory to the staging area.
7. **git commit -m "some message" :** Commits the staged changes with the some message.
8. **git remote add origin <url> :** Adds a remote repository named origin with the specified URL.
9. **git push -u origin main :** Pushes the committed changes to the main branch of the remote repository and sets the upstream branch.
10. **git log :** Displays the commit history.
11. **ls :** Lists the files in the current directory.
12. **git rm --cached <file name>:** Removes the file from the staging area but keeps it in the working directory.

**Program –**

swata@LAPTOP-9APT1262 MINGW64 ~

$ git --version

git version 2.45.1.windows.1

swata@LAPTOP-9APT1262 MINGW64 ~

$ mkdir exp03DevOps

swata@LAPTOP-9APT1262 MINGW64 ~

$ cd exp03DevOps

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps

$ git init

Initialized empty Git repository in C:/Users/swata/exp03DevOps/.git/

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ ls -a

./ ../ .git/

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano school.txt college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add --all

warning: in the working copy of 'college.txt', LF will be replaced by CRLF the next time Git touches it

warning: in the working copy of 'school.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Created the files school.txt and college.txt"

[main (root-commit) b22316a] Created the files school.txt and college.txt

2 files changed, 2 insertions(+)

create mode 100644 college.txt

create mode 100644 school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add remote orirgin https://github.com/SwatantraKasliwal/DevOps.git

fatal: pathspec 'remote' did not match any files

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git remote add origin https://github.com/SwatantraKasliwal/DevOps.git

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push -u origin

fatal: The current branch main has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin main

To have this happen automatically for branches without a tracking

upstream, see 'push.autoSetupRemote' in 'git help config'.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push -u origin main

remote: Repository not found.

fatal: repository 'https://github.com/SwatantraKasliwal/DevOps.git/' not found

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git remote add origin https://github.com/SwatantraKasliwal/DevOps.git

error: remote origin already exists.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push -u origin main

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (4/4), 335 bytes | 167.00 KiB/s, done.

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

To https://github.com/SwatantraKasliwal/DevOps.git

\* [new branch] main -> main

branch 'main' set up to track 'origin/main'.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

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

nothing to commit, working tree clean

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log

commit b22316ae5f4a39a24ebe03deb40fe4458aed5c08 (HEAD -> main, origin/main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:24:32 2024 +0530

Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ ls -a

./ ../ .git/ college.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git rm --cached school.txt

rm 'school.txt'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

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

Changes to be committed:

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

deleted: school.txt

Untracked files:

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

school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Deleted the file school.txt"

[main e98856b] Deleted the file school.txt

1 file changed, 1 deletion(-)

delete mode 100644 school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push

Enumerating objects: 3, done.

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

Delta compression using up to 8 threads

Compressing objects: 100% (1/1), done.

Writing objects: 100% (2/2), 255 bytes | 255.00 KiB/s, done.

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

To https://github.com/SwatantraKasliwal/DevOps.git

b22316a..e98856b main -> main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ 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)

school.txt

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log

commit e98856b0836128d8ae62138c6b926e02791f2c42 (HEAD -> main, origin/main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:30:42 2024 +0530

Deleted the file school.txt

commit b22316ae5f4a39a24ebe03deb40fe4458aed5c08

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:24:32 2024 +0530

Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout school.txt

error: pathspec 'school.txt' did not match any file(s) known to git

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git chechout b22^C

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout b2231 school.txt

Updated 1 path from 4f0f776

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

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

Changes to be committed:

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

new file: school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "restore the delted file"

[main 33f583a] restore the delted file

1 file changed, 1 insertion(+)

create mode 100644 school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 316 bytes | 316.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/SwatantraKasliwal/DevOps.git

e98856b..33f583a main -> main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ ls

college.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

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

nothing to commit, working tree clean

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log

commit 33f583ae133df6820c3af8bc4bd183537084ab29 (HEAD -> main, origin/main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:35:29 2024 +0530

restore the delted file

commit e98856b0836128d8ae62138c6b926e02791f2c42

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:30:42 2024 +0530

Deleted the file school.txt

commit b22316ae5f4a39a24ebe03deb40fe4458aed5c08

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:24:32 2024 +0530

Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

33f583a (HEAD -> main, origin/main) restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano myhistory.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add --all

warning: in the working copy of 'myhistory.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Adding the file myhistory.txt"

[main 524de94] Adding the file myhistory.txt

1 file changed, 2 insertions(+)

create mode 100644 myhistory.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (3/3), 359 bytes | 359.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/SwatantraKasliwal/DevOps.git

33f583a..524de94 main -> main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log

commit 524de9404eb91d4cb43673c0bbb5046c749a16a9 (HEAD -> main, origin/main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:38:47 2024 +0530

Adding the file myhistory.txt

commit 33f583ae133df6820c3af8bc4bd183537084ab29

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:35:29 2024 +0530

restore the delted file

commit e98856b0836128d8ae62138c6b926e02791f2c42

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:30:42 2024 +0530

Deleted the file school.txt

commit b22316ae5f4a39a24ebe03deb40fe4458aed5c08

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:24:32 2024 +0530

Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano school.txt myhistory.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

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

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: myhistory.txt

modified: school.txt

no changes added to commit (use "git add" and/or "git commit -a")

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git diff

warning: in the working copy of 'myhistory.txt', LF will be replaced by CRLF the next time Git touches it

diff --git a/myhistory.txt b/myhistory.txt

index e58613f..9380049 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

-this is about my history

+this is about my history. meri histroy jan ke kya karega lavde.

diff --git a/school.txt b/school.txt

index e10d4f1..158950f 100644

--- a/school.txt

+++ b/school.txt

@@ -1 +1 @@

-this is about my school.

+this is about my school.The school was tatti.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add --all

warning: in the working copy of 'myhistory.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git diff

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

524de94 (HEAD -> main, origin/main) Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Updated the file myhistory.txt and school.txt"

[main 83a7cc3] Updated the file myhistory.txt and school.txt

2 files changed, 2 insertions(+), 2 deletions(-)

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

83a7cc3 (HEAD -> main) Updated the file myhistory.txt and school.txt

524de94 (origin/main) Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git diff HEAD HEAD~

diff --git a/myhistory.txt b/myhistory.txt

index 9380049..e58613f 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

-this is about my history. meri histroy jan ke kya karega lavde.

+this is about my history

diff --git a/school.txt b/school.txt

index 158950f..e10d4f1 100644

--- a/school.txt

+++ b/school.txt

@@ -1 +1 @@

-this is about my school.The school was tatti.

+this is about my school.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git show

commit 83a7cc39db445900eb89a93801c92d209374be49 (HEAD -> main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:49:39 2024 +0530

Updated the file myhistory.txt and school.txt

diff --git a/myhistory.txt b/myhistory.txt

index e58613f..9380049 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

-this is about my history

+this is about my history. meri histroy jan ke kya karega lavde.

diff --git a/school.txt b/school.txt

index e10d4f1..158950f 100644

--- a/school.txt

+++ b/school.txt

@@ -1 +1 @@

-this is about my school.

+this is about my school.The school was tatti.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git blame school.txt

83a7cc39 (SwatantraKasliwal 2024-07-30 09:49:39 +0530 1) this is about my school.The school was tatti.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git reflog

83a7cc3 (HEAD -> main) HEAD@{0}: commit: Updated the file myhistory.txt and school.txt

524de94 (origin/main) HEAD@{1}: commit: Adding the file myhistory.txt

33f583a HEAD@{2}: commit: restore the delted file

e98856b HEAD@{3}: commit: Deleted the file school.txt

b22316a HEAD@{4}: commit (initial): Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git diff HEAD HEAD~

diff --git a/myhistory.txt b/myhistory.txt

index 9380049..e58613f 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

-this is about my history. meri histroy jan ke kya karega lavde.

+this is about my history

diff --git a/school.txt b/school.txt

index 158950f..e10d4f1 100644

--- a/school.txt

+++ b/school.txt

@@ -1 +1 @@

-this is about my school.The school was tatti.

+this is about my school.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git show HEAD

commit 83a7cc39db445900eb89a93801c92d209374be49 (HEAD -> main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:49:39 2024 +0530

Updated the file myhistory.txt and school.txt

diff --git a/myhistory.txt b/myhistory.txt

index e58613f..9380049 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

-this is about my history

+this is about my history. meri histroy jan ke kya karega lavde.

diff --git a/school.txt b/school.txt

index e10d4f1..158950f 100644

--- a/school.txt

+++ b/school.txt

@@ -1 +1 @@

-this is about my school.

+this is about my school.The school was tatti.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano myhistory.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Added the content to myhistory.txt"

On branch main

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

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

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: myhistory.txt

no changes added to commit (use "git add" and/or "git commit -a")

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add --all

warning: in the working copy of 'myhistory.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Added the content to myhistory.txt"

[main d4b53de] Added the content to myhistory.txt

1 file changed, 1 insertion(+), 1 deletion(-)

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git tag

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git tag -a

usage: git tag [-a | -s | -u <key-id>] [-f] [-m <msg> | -F <file>] [-e]

<tagname> [<commit> | <object>]

or: git tag -d <tagname>...

or: git tag [-n[<num>]] -l [--contains <commit>] [--no-contains <commit>]

[--points-at <object>] [--column[=<options>] | --no-column]

[--create-reflog] [--sort=<key>] [--format=<format>]

[--merged <commit>] [--no-merged <commit>] [<pattern>...]

or: git tag -v [--format=<format>] <tagname>...

-l, --list list tag names

-n[<n>] print <n> lines of each tag message

-d, --delete delete tags

-v, --verify verify tags

Tag creation options

-a, --[no-]annotate annotated tag, needs a message

-m, --message <message>

tag message

-F, --[no-]file <file>

read message from file

-e, --[no-]edit force edit of tag message

-s, --[no-]sign annotated and GPG-signed tag

--[no-]cleanup <mode> how to strip spaces and #comments from message

-u, --[no-]local-user <key-id>

use another key to sign the tag

-f, --[no-]force replace the tag if exists

--[no-]create-reflog create a reflog

Tag listing options

--[no-]column[=<style>]

show tag list in columns

--contains <commit> print only tags that contain the commit

--no-contains <commit>

print only tags that don't contain the commit

--merged <commit> print only tags that are merged

--no-merged <commit> print only tags that are not merged

--[no-]omit-empty do not output a newline after empty formatted refs

--[no-]sort <key> field name to sort on

--[no-]points-at <object>

print only tags of the object

--[no-]format <format>

format to use for the output

--[no-]color[=<when>] respect format colors

-i, --[no-]ignore-case

sorting and filtering are case insensitive

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log

commit d4b53de3785ee2f0ea5803ca4480a0b555a3e0fc (HEAD -> main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:58:34 2024 +0530

Added the content to myhistory.txt

commit 83a7cc39db445900eb89a93801c92d209374be49

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:49:39 2024 +0530

Updated the file myhistory.txt and school.txt

commit 524de9404eb91d4cb43673c0bbb5046c749a16a9 (origin/main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:38:47 2024 +0530

Adding the file myhistory.txt

commit 33f583ae133df6820c3af8bc4bd183537084ab29

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:35:29 2024 +0530

restore the delted file

commit e98856b0836128d8ae62138c6b926e02791f2c42

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:30:42 2024 +0530

Deleted the file school.txt

commit b22316ae5f4a39a24ebe03deb40fe4458aed5c08

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:24:32 2024 +0530

Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git show

commit d4b53de3785ee2f0ea5803ca4480a0b555a3e0fc (HEAD -> main)

Author: SwatantraKasliwal <swatantrakasliwal25@gmail.com>

Date: Tue Jul 30 09:58:34 2024 +0530

Added the content to myhistory.txt

diff --git a/myhistory.txt b/myhistory.txt

index 9380049..017f33c 100644

--- a/myhistory.txt

+++ b/myhistory.txt

@@ -1,2 +1,2 @@

this is about my history. meri histroy jan ke kya karega lavde.

-

+tu phir meri history dekhne aa gaya

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline --decorate^C

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline --decorate

d4b53de (HEAD -> main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 (origin/main) Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ ls -a

./ ../ .git/ college.txt myhistory.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git brach

git: 'brach' is not a git command. See 'git --help'.

The most similar command is

branch

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

\* main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout master

Switched to branch 'master'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ nano master.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git add --all

warning: in the working copy of 'master.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git commit -m "Created the master branch"

[master ccecfed] Created the master branch

1 file changed, 1 insertion(+)

create mode 100644 master.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git log --oneline

ccecfed (HEAD -> master) Created the master branch

d4b53de (main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 (origin/main) Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push '

> ^C

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push

Enumerating objects: 10, done.

Counting objects: 100% (10/10), done.

Delta compression using up to 8 threads

Compressing objects: 100% (6/6), done.

Writing objects: 100% (7/7), 784 bytes | 784.00 KiB/s, done.

Total 7 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (1/1), done.

To https://github.com/SwatantraKasliwal/DevOps.git

524de94..d4b53de main -> main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git --oneline

unknown option: --oneline

usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]

[--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]

[-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]

[--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]

[--config-env=<name>=<envvar>] <command> [<args>]

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

d4b53de (HEAD -> main, origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ ls -a

./ ../ .git/ college.txt myhistory.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout master

Switched to branch 'master'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git log --oneline

ccecfed (HEAD -> master) Created the master branch

d4b53de (origin/main, main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git branch chapter-two

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git branch

chapter-two

main

\* master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git checkout chapter-two

Switched to branch 'chapter-two'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ nano newfile.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git status

On branch chapter-two

Untracked files:

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

newfile.txt

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git add --all

warning: in the working copy of 'newfile.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git commit -m "Created the new file on chater-two branch"

[chapter-two d7711d8] Created the new file on chater-two branch

1 file changed, 1 insertion(+)

create mode 100644 newfile.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git push

fatal: The current branch chapter-two has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin chapter-two

To have this happen automatically for branches without a tracking

upstream, see 'push.autoSetupRemote' in 'git help config'.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git checkout main

Switched to branch 'main'

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

d4b53de (HEAD -> main, origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

chapter-two

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout chapter-two

Switched to branch 'chapter-two'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git log --oneline

d7711d8 (HEAD -> chapter-two) Created the new file on chater-two branch

ccecfed (master) Created the master branch

d4b53de (origin/main, main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git maain

git: 'maain' is not a git command. See 'git --help'.

The most similar command is

mailinfo

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git main

git: 'main' is not a git command. See 'git --help'.

The most similar command is

mailinfo

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git merge chapter-two

Already up to date.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git chekout main

git: 'chekout' is not a git command. See 'git --help'.

The most similar command is

checkout

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter-two)

$ git checkout main

Switched to branch 'main'

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

d4b53de (HEAD -> main, origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git merge chapter-two

Updating d4b53de..d7711d8

Fast-forward

master.txt | 1 +

newfile.txt | 1 +

2 files changed, 2 insertions(+)

create mode 100644 master.txt

create mode 100644 newfile.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

d7711d8 (HEAD -> main, chapter-two) Created the new file on chater-two branch

ccecfed (master) Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch -d chapter-two

Deleted branch chapter-two (was d7711d8).

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout master

Switched to branch 'master'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git log --oneline

ccecfed (HEAD -> master) Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ ls

college.txt master.txt myhistory.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git merge master

Already up to date.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git merge main

Updating ccecfed..d7711d8

Fast-forward

newfile.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 newfile.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git log --oneline

d7711d8 (HEAD -> master, main) Created the new file on chater-two branch

ccecfed Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (master)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

d7711d8 (HEAD -> main, master) Created the new file on chater-two branch

ccecfed Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch chapter3

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

chapter3

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout chapter3

Switched to branch 'chapter3'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ nano chapter3.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git add --all

warning: in the working copy of 'chapter3.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git commit -m "Created the chapter3 branch and added the new file chapter3"

[chapter3 d0b1c82] Created the chapter3 branch and added the new file chapter3

1 file changed, 1 insertion(+)

create mode 100644 chapter3.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git log --oneline

d0b1c82 (HEAD -> chapter3) Created the chapter3 branch and added the new file chapter3

d7711d8 (master, main) Created the new file on chater-two branch

ccecfed Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ ls

chapter3.txt college.txt master.txt myhistory.txt newfile.txt school.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git status

On branch chapter3

nothing to commit, working tree clean

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git status

On branch main

Your branch is ahead of 'origin/main' by 2 commits.

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

nothing to commit, working tree clean

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout main

Already on 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout chapter3

Switched to branch 'chapter3'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ nano story.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git log --oneline

d0b1c82 (HEAD -> chapter3) Created the chapter3 branch and added the new file chapter3

d7711d8 (master, main) Created the new file on chater-two branch

ccecfed Created the master branch

d4b53de (origin/main) Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git stash list

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git add --all

warning: in the working copy of 'story.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git stash list

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git commit -m "Created the story file in the chater3 branch"

[chapter3 cd8ba61] Created the story file in the chater3 branch

1 file changed, 2 insertions(+)

create mode 100644 story.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git stash list

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git stash

No local changes to save

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git diff stash

fatal: ambiguous argument 'stash': unknown revision or path not in the working tree.

Use '--' to separate paths from revisions, like this:

'git <command> [<revision>...] -- [<file>...]'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git diff stash@{0}

fatal: ambiguous argument 'stash@{0}': unknown revision or path not in the working tree.

Use '--' to separate paths from revisions, like this:

'git <command> [<revision>...] -- [<file>...]'

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ nano text.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git stash

No local changes to save

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ ls

chapter3.txt master.txt newfile.txt story.txt

college.txt myhistory.txt school.txt text.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (chapter3)

$ git checkout main

Switched to branch 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano myhistory.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git stash save "stashed myhistory.txt"

No local changes to save

$ cd exp03DevOps

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

chapter3

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git checkout main

Already on 'main'

Your branch is ahead of 'origin/main' by 2 commits.

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

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ nano push.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git add --all

warning: in the working copy of 'push.txt', LF will be replaced by CRLF the next time Git touches it

warning: in the working copy of 'text.txt', LF will be replaced by CRLF the next time Git touches it

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git remote add origin https://github.com/SwatantraKasliwal/DevOps2

error: remote origin already exists.

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git remote add push2 https://github.com/SwatantraKasliwal/DevOps2

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ gitbranch

bash: gitbranch: command not found

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git branch

chapter3

\* main

master

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git commit -m "Created the new repositry devOps2"

[main 2f8309f] Created the new repositry devOps2

2 files changed, 4 insertions(+)

create mode 100644 push.txt

create mode 100644 text.txt

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git push origin main

Enumerating objects: 11, done.

Counting objects: 100% (11/11), done.

Delta compression using up to 8 threads

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

Writing objects: 100% (10/10), 1.03 KiB | 351.00 KiB/s, done.

Total 10 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (2/2), done.

To https://github.com/SwatantraKasliwal/DevOps.git

d4b53de..2f8309f main -> main

swata@LAPTOP-9APT1262 MINGW64 ~/exp03DevOps (main)

$ git log --oneline

2f8309f (HEAD -> main, origin/main) Created the new repositry devOps2

d7711d8 (master) Created the new file on chater-two branch

ccecfed Created the master branch

d4b53de Added the content to myhistory.txt

83a7cc3 Updated the file myhistory.txt and school.txt

524de94 Adding the file myhistory.txt

33f583a restore the delted file

e98856b Deleted the file school.txt

b22316a Created the files school.txt and college.txt

**Conclusion –** Successfullyperform thedemonstration of various git operations on local and remote repository using git cheat-sheet.