1. Git Setup

```
ttn@ttn:-/gitassignment$ git --version
git version 2.17.1
ttn@ttn:-/gitassignment$ [
```

2. Initialize a Git Repository

```
ttn@ttn:~/gitassignment$ git init
Initialized empty Git repository in /home/ttn/gitassignment/.git/
```

3. Add files to the repository

```
ttn@ttn:-/gitassignment$ vi my.txt

ttnattn:-/gitassignment$ ll

total 16

drwxr-xr-x 3 ttn ttn 4096 Feb 5 21:32 .//
drwxr-xr-x 23 ttn ttn 4096 Feb 5 20:56 ..//
drwxr-xr-x 7 ttn ttn 4096 Feb 5 21:32 .git/
....-ru-r-r-- 1 ttn ttn 12 Feb 5 21:32 my.txt

ttn@ttn:-/gitassignment$ git add .

ttn@ttn:-/gitassignment$ l
```

4. Unstage 1 file

```
thmath:-/gitassignments git status
On branch master

No commits yet

Changes to be committed:
(use "git rm --cached <file>..." to unstage)

new file: my.txt

ttmattn:-/gitassignmentS git rm --cached gitassignment/my.txt
fatal: pathspec 'gitassignment/my.txt' did not match any files
ttmattn:-/gitassignmentS git rm --cached my.txt
"m'my.txt"
ttmattn:-/gitassignmentS git status
On branch master

No commits yet

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

Ny.txt

nothing added to commit but untracked files present (use "git add" to track)
ttmattn:-/gitassignments |
```

5. Commit the file

```
ttn@ttn:-/gitassignment$ git add .

ttn@ttn:-/gitassignment$ git commit -m "File added"

[master (root-commit) 715db98] File added

1 file changed, 2 insertions(+)

create mode 100644 my.txt

ttn@ttn:-/gitassignment$
```

6. Add a remote

```
ttn@ttn:-/gitassignment$ git remote add origin https://github.com/adlakhamehak98/BootcampPracticeSession.git
...tn@ttn:-/gitassignment$ git remote
...tn@ttn:-/gitassignment$ [
```

7. Undo changes to a particular file

```
a. ctmgtcm:=/gitassignments git remote
origin

thmgttm:=/gitassignments vi my.txt
ttmgttm:=/gitassignments git status
On branch master
(use "git add <file>..." to update what will be committed)
(use "git checkout -- <file>..." to discard changes in working directory)

modified: my.txt

>- no changes added to commit (use "git add" and/or "git commit -a")
ttmgttm:=/gitassignments git checkout -- my.txt
ttmgttm:=/gitassignments git status
On branch master

thmgttm:=/gitassignments directed
ttmgttm:=/gitassignments directed
ttmgtm:=/gitassignments dir
```

8. Push changes to Github

9. Clone the repository

10.Add changes to one of the copies and pull the changes in the other.

```
ttn@ttn://gttassignment/BootcampPracticeSession$ vi my1.txt
ttn@ttn:-/gitassignment/BootcampPracticeSession$ glt add .
ttn@ttn:-/gitassignment/BootcampPracticeSession$ glt commit -m "checking pull"
[master 4a0831f] checking pull
file changed, 1 insertion(+)
create mode 100644 my1.txt
```

11. Check differences between a file and its staged version

```
thm@ttm:~/gitassignment$ vi file.txt
ttm@ttm:~/gitassignment$ git add file.txt
ttm@ttm:/gitassignment$ git diff

ttm@ttm:/gitassignment$ git diff

--staged
diff --git a/BootcampPracticeSession b/BootcampPracticeSession
new file node 160000
index 0000000.4a0831f
--- /dev/null
+-- b/BootcampPracticeSession
00 -0.0 +1 00

--- dev/null
--- /dev/null
--- /dev/null
--- /dev/null
+-- b/BootcampPracticeSession
00 -0.0 +1 00
--- /dev/null
+--- /dev/null
---- /dev/null
--
```

12. Ignore a few files to be checked in

13.Create a new branch.

```
treate Mode 100044 Title.txt

ttn@ttn://gitassignment$ git checkout -b newBranch

ttn@ttn:-//gitassignment$

ttn@ttn:-//gitassignment$
```

14. Diverge them with commits

```
ttn@ttn:-/gitassignmentS catsnewfile.txt
diverging branch^C
ttn@ttn:-/gitassignmentS git commit -m "diverging branch"
[newBranch d4adce5] diverging branch
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 108044 newfile.txt
ttn@ttn:-/gitassignmentS []
```

15.Edit the same file at the same line on both branches and commit

```
tm@ttn:-/gitassignment$ cat>>newfile.txt
making conflict^C
ttm@ttn:-/gitassignment$ git add newfile.txt
ttm@ttn:-/gitassignment$ git commit -m "making conflict"
[master ec77169] making conflict

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100044 newfile.txt
ttm@ttn:-/gitassignment$ []
```

16. Try merging and resolve merge conflicts



17. Stash the changes and pop them

```
Activities Terminal * Wed 15:54

gaurav@ttn:/home/ttn

File Edit View Search Terminal Help

trngttn:gitassignment (caster) Cat>file3.txt

added sone text to stash

trngttn:gitassignment (naster) Stat file3.txt

added sone text to stash

trngttn:gitassignment (naster) Status

on branch master

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

Changes not staged for commit:

(use 'git add rfile>...' to update what will be committed)

(use 'git checkout -- rfile>...' to discard changes in working directory)

modified: file3.txt

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

trngttn:gitassignment (naster) Sgit stash
Saved working directory and index state MIP on master: a93397a file1.txt is added trngttn:gitassignment (naster) Sgit stash pop on branch master

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

al trngttn:gitassignment (naster) Sgit stash pop on pranch master

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

Schanges not staged for commit:

(use 'git add rfile>...' to update what will be committed)

(use 'git add rfile>...' to update what will be committed)

(use 'git add rfile>...' to update what will be committed)

(use 'git add rfile>...' to update what will be committed)

trngtn:gitassignment (naster) Sgit status

on changes added to commit:

(use 'git add rfile>...' to discard changes in working directory)

modified: file5.txt

on changes added to commit (use "git add" and/or "git commit -a")

roped refi-trsgtssignment (naster) Sgit status

on changes added to commit (use "git add" and/or "git commit -a")

roped refi-trsgtssignment (naster) Sgit status

on changes added to commit (use "git add" and/or "git commit -a")

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```

```
changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git checkout -- <file>..." to discard changes in working directory)

modified: file3.txt

...

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

ttn@ttn:gitassignment (master)$
```

```
18.Add the following code to your .bashrc file : color_prompt="yes" parse_git_branch() {
    git branch 2> /dev/null | sed -e '/^[^*]/d' -e 's/* \(.*\)/(\1)/'
    }
    if [ "$color_prompt" = yes ]; then
    PS1='\u@\h\[\033[00m\]:\[\033[
    else
    PS1='\u@\h:\W $(parse_git_branch)\$'
    fi
    unset color_prompt force_color_prompt
```

