Project - 4

Git Project:

Following are the series of steps and screenshots for the executed commands

- **I.** Task 1: Create a repository in github
- a. Git init

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo (master)
$ git init
Reinitialized existing Git repository in C:/myrepo/.git/
```

b. Both config commands

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo (master)
$ git config --global user.email shivapd1996@gmail.com
shiva@Donfig --global user.name ShivaBasava
```

- **II.** Task 2: Open git bash and clone contents from remote repository
 - **a.** Clone, used to get the remote repository copy to local repository

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo (master)

$ git clone https://github.com/ShivaBasava/demo-letsup.git
Cloning into 'demo-letsup'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
```

b. show the folder in local repository - **demo-letsup** is the repository

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo (master)
$ ls
demo-letsup/ green/ red/ test1.txt
```

- **III.** Task 3: Create a file in the local space and push it to the remote repository
 - **a.** Add command

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git add .

shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (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: test1.txt
```

b. Commit command

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git commit -m "Added test1.txt" test1.txt
[main bc723a3] Added test1.txt
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test1.txt

shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

c. Displaying push successful

d. Displaying the file in remote repository



IV. Task 4: Branching and merging

Executing the various git branch commands and their screenshots

a. git branch

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git branch
* main
```

b. git branch **new branch**

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git branch new_branch
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git branch
* main
new_branch
```

c. git checkout **new_branch**

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)

$ git checkout new_branch
Switched to branch 'new_branch'

shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch)

$ |
```

d. git merge new_branch

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git merge new_branch
Already up to date.
```

e. git branch -d new_branch

After adding a text file, we tried to delete the branch 'new_branch', below screenshot shows the scenario.

```
shiva@DESKTOP-EKNHCTS MINGw64 /c/myrepo/demo-letsup (main)

$ git branch -d new_branch
error: The branch 'new_branch' is not fully merged.
If you are sure you want to delete it, run 'git branch -D new_branch'.

shiva@DESKTOP-EKNHCTS MINGw64 /c/myrepo/demo-letsup (main)

$ git merge new_branch
Updating bc723a3..2b062cc
Fast-forward
sample.txt | 0

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 sample.txt

shiva@DESKTOP-EKNHCTS MINGw64 /c/myrepo/demo-letsup (main)

$ git branch -d new_branch
Deleted branch new_branch (was 2b062cc).
```

f. git checkout -b new_branch2

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)

$ git checkout -b new_branch2
Switched to a new branch 'new_branch2'

shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch2)

$ [
```

g. git branch -D new_branch2

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git branch
  main
  new_branch2
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git checkout new_branch2
Switched to branch 'new_branch2'
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch2)
$ touch sample.txt
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch2)
$ git add .
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch2)
$ git commit -m "added sample" sample.txt
[new_branch2 2971eb9] added sample
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 sample.txt
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (new_branch2)
$ git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git branch -D new_branch2
Deleted branch new_branch2 (was 2971eb9).
```

h. git log

```
shiva@DESKTOP-EKNHCTS MINGW64 /c/myrepo/demo-letsup (main)
$ git log
commit 2b062cc18f7eef3ac7b0c52aad07e38374de3b64 (HEAD -> main)
Author: ShivaBasava <shivapd1996@gmail.com>
Date: Sun Jan 31 20:37:33 2021 +0530

    sample.txt

commit bc723a3b85ab7e0308d47545873b7445e2b157ae (origin/main, origin/HEAD)
Author: ShivaBasava <shivapd1996@gmail.com>
Date: Sun Jan 31 19:25:37 2021 +0530

Added test1.txt
```