EXPERIMENT 3

Aim: Cmd version control commands
Theory:

If you want to check your configuration settings, you can use the `git config --list` command to list all the settings Git can find at that point:

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git init
Initialized empty Git repository in C:/Users/AI&DS 202/Desktop/git-dvcs/git-demo-project/.git/

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ ls -a
./  ../  .git/

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git add .

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git commit -am "express Commit"
[master (root-commit) f6ada53] express Commit
 1 file changed, 47 insertions(+)
 create mode 100644 index.html.txt

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ nano index.html
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    index.html.txt

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

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

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ touch teststatus

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git checkout -- teststatus
error: pathspec 'teststatus' did not match any file(s) known to git
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git checkout -- index.html
error: pathspec 'index.html' did not match any file(s) known to git
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git add index.html

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git checkout -- index.html

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    index.html.txt

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

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git add teststatus

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   index.html
        new file:   teststatus

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    index.html.txt
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git commit -am "express Commit"
[master 337386c] express Commit
 2 files changed, 0 insertions(+), 0 deletions(-)
 rename index.html.txt => index.html (100%)
 create mode 100644 teststatus

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git status
On branch master
nothing to commit, working tree clean
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log
commit 337386c30e699833155a639824458939e8062781 (HEAD -> master)
Author: Khyati <khyati428@gmail.com>
Date:   Wed Jan 17 09:16:52 2024 +0530

    express Commit

commit f6ada535f1606dd72e3e752362c4c58847c95f13
Author: Khyati <khyati428@gmail.com>
Date:   Wed Jan 17 09:00:56 2024 +0530

    express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log --oneline
337386c (HEAD -> master) express Commit
f6ada53 express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log --oneline f6ada53..337386c
337386c (HEAD -> master) express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log --oneline
337386c (HEAD -> master) express Commit
f6ada53 express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log --oneline f6ada53..337386c
337386c (HEAD -> master) express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git log --oneline -n 2
337386c (HEAD -> master) express Commit
f6ada53 express Commit

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ git clone https://github.com/khyaaati/siesworkshop.git
Cloning into 'siesworkshop'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 12 (delta 0), reused 9 (delta 0), pack-reused 0
Receiving objects: 100% (12/12), done.

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project (master)
$ cd siesworkshop/
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project/siesworkshop (master)
$ git pull
Already up to date.

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project/siesworkshop (master)
$ git add .

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project/siesworkshop (master)
$ git commit -m "commit"
[master ad1b06a] commit
 1 file changed, 1 insertion(+), 1 deletion(-)
```

```
AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project/siesworkshop (master)
$ git push
info: please complete authentication in your browser...
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 296 bytes | 296.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/khyaaati/siesworkshop.git
   0a63357..ad1b06a  master -> master

AI&DS 202@DESKTOP-EEAH3F9 MINGW64 ~/desktop/git-dvcs/git-demo-project/siesworkshop (master)
$ git fetch
```