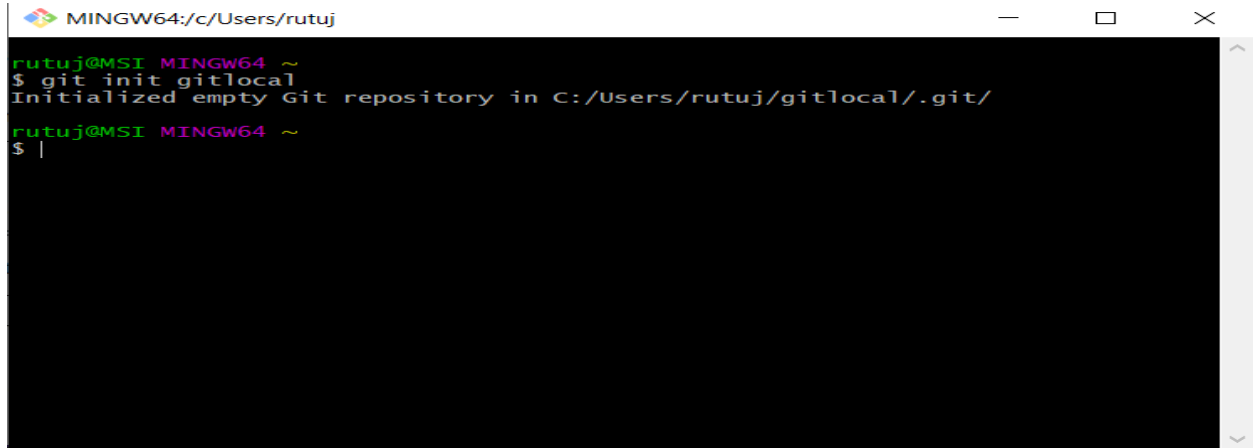


Practical Tasks

Submitted By: Rutuja Dilip Shivgan

- Initialize an empty Git repository on your local machine with the name “**gitlocal**” and make a **README.md** file in that directory which should contain your name as a heading and a hello message(<https://www.makeareadme.com/>) .



```
MINGW64:/c/Users/rutuj
rutuj@MSI MINGW64 ~
$ git init gitlocal
Initialized empty Git repository in C:/Users/rutuj/gitlocal/.git/
rutuj@MSI MINGW64 ~
$ |
```

```

rutuj@MSI MINGW64 ~ (master)
$ cd "C:/Users/rutuj/Desktop/"

rutuj@MSI MINGW64 ~/Desktop (master)
$ git init gitlocal
Initialized empty Git repository in C:/Users/rutuj/Desktop/gitlocal/.git/

rutuj@MSI MINGW64 ~/Desktop (master)
$ cd "C:/Users/rutuj/Desktop/gitlocal/"

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ echo "# InnovationPython_Rutuja" >> README.md

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git add README.md
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ vim README.md

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git status
On branch master

No commits yet

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

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:   README.md

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ |

```

- Now check the status of your git directory and push all the files in that directory to your GitHub repo which you have made in the first step. With a message "First Commit to Git Repo".

```

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git status
On branch master

No commits yet

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

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:   README.md

```

```
rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git branch -M main
error: rename refs/heads/master not found
fatal: Branch rename failed

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git add .
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git commit -m "First Commit to Git Repo"
[master (root-commit) b143a97] First Commit to Git Repo
1 file changed, 3 insertions(+)
create mode 100644 README.md

rutuj@MSI MINGW64 ~/Desktop/gitlocal (master)
$ git branch -M main

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git remote add origin https://github.com/Innovativepython/InnovationPython_Rutuja.git

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git push -u origin main
```

```
rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 242 bytes | 242.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Innovativepython/InnovationPython_Rutuja.git
 * [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ |
```

- Pull the changes in your git repo to your local machine git directory named “**gitlocal**” and check the status for the modifications done in that repo. This time demo should be visible in your local machine.

```

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git pull origin main
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 697 bytes | 58.00 KiB/s, done.
From https://github.com/Innovativepython/InnovationPython_Rutuja
* branch      main      -> FETCH_HEAD
   b143a97..6188137 main    -> origin/main
Updating b143a97..6188137
Fast-forward
 demo.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 demo.txt

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ ls
demo.txt  README.md

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ |

```

- Now make a new branch in your local machine with the name “**developer**”.

```

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git checkout -b developer
Switched to a new branch 'developer'

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ vim demo.txt

```

- Edit that demo file and write some content in that eg: “This is a demo file after modification” and push the modifications to your GitHub repo from the **developer** branch with a commit message “Commit from developer branch”.

```

rutuj@MSI MINGW64 ~/Desktop/gitlocal (main)
$ git checkout -b developer
Switched to a new branch 'developer'

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ vim demo.txt

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ git commit -m "Commit from developer branch"
On branch developer
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:   demo.txt

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

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ git add .

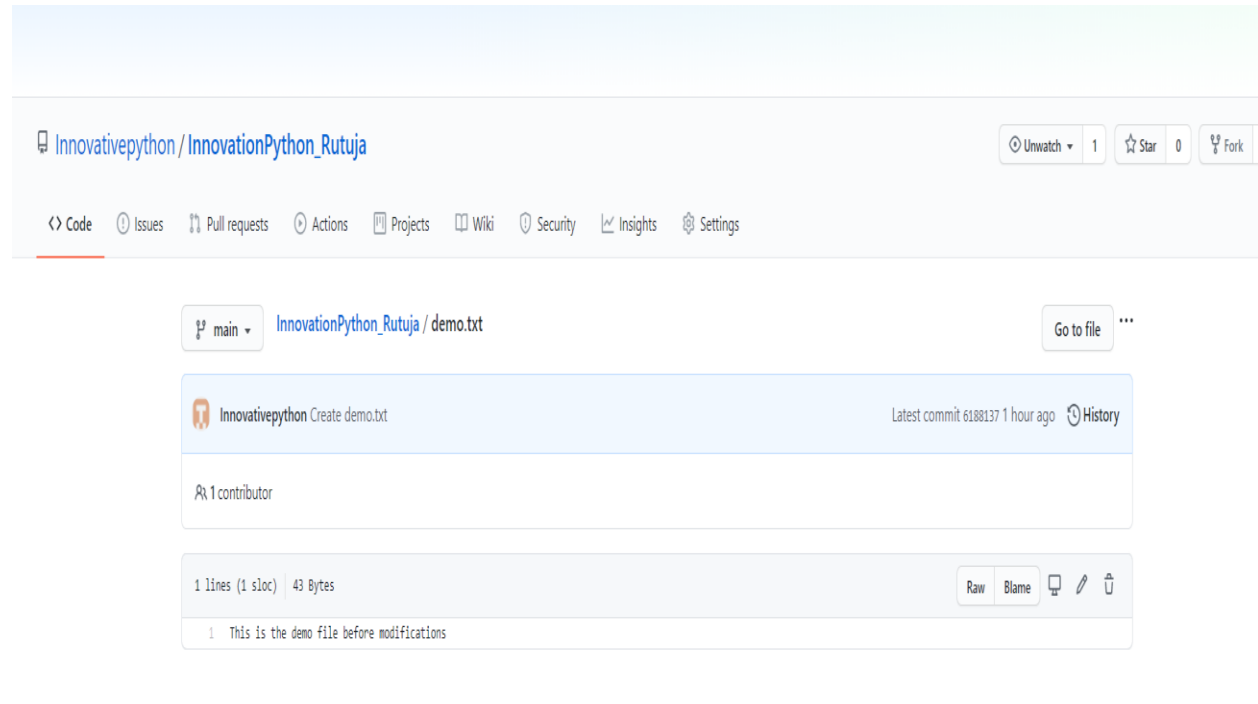
rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ git commit -m "Commit from developer branch"
[developer c9275a3] Commit from developer branch
1 file changed, 2 insertions(+), 1 deletion(-)

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ git push -u origin developer
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 324 bytes | 324.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'developer' on GitHub by visiting:
remote:   https://github.com/Innovativepython/InnovationPython_Rutuja/pull/new/developer
remote:
To https://github.com/Innovativepython/InnovationPython_Rutuja.git
 * [new branch]      developer -> developer
Branch 'developer' set up to track remote branch 'developer' from 'origin'.

rutuj@MSI MINGW64 ~/Desktop/gitlocal (developer)
$ |

```

- Go to the GitHub console and generate a merge request to master branch after checking the modifications.
- After merging you could see the modified content in the demo file. Now revert back to the previous version from terminal. After switching back to the previous version your demo file should have the content: This is a demo file before modification.



- At the end delete the developer branch.

