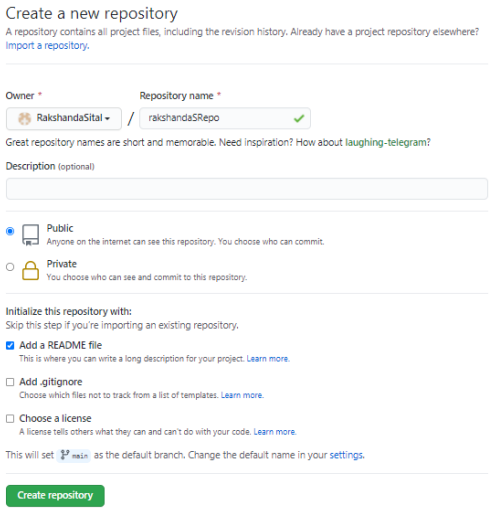
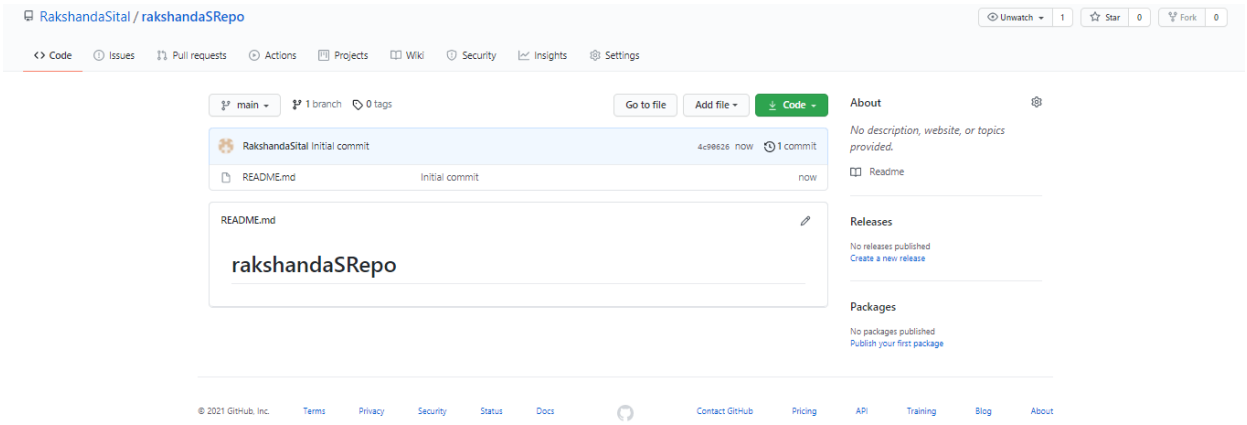
Assignment on GIT and GIT-Hub

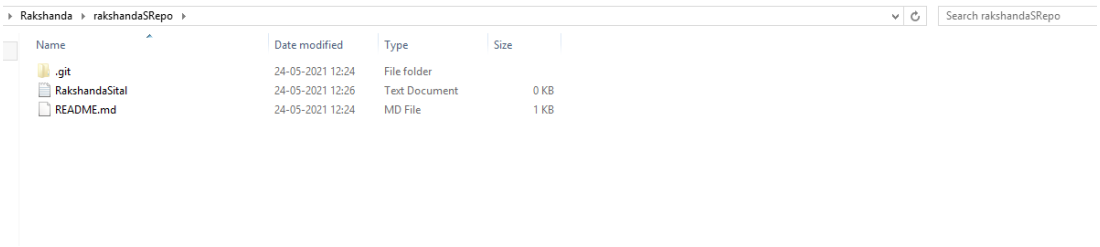
Creating new Repository





Git Clone

Creating File on local machine



Adding file to repository

Commiting file using git command

```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git add RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ ls
README.md  RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (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:   RakshandaSital.txt


Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git commit -m "new text file"
[main d59be00] new text file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git commit -m "new text file"
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

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$
```

Adding file to git repository

```
README.md  RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

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  (use "git restore --staged <file>..." to unstage)
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[main d59be00] new text file
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Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git commit -m "new text file"
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

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (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

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 293 bytes | 13.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/RakshandaSital/rakshandaSRepo.git
   4c90626..d59be00  main -> main

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$
```
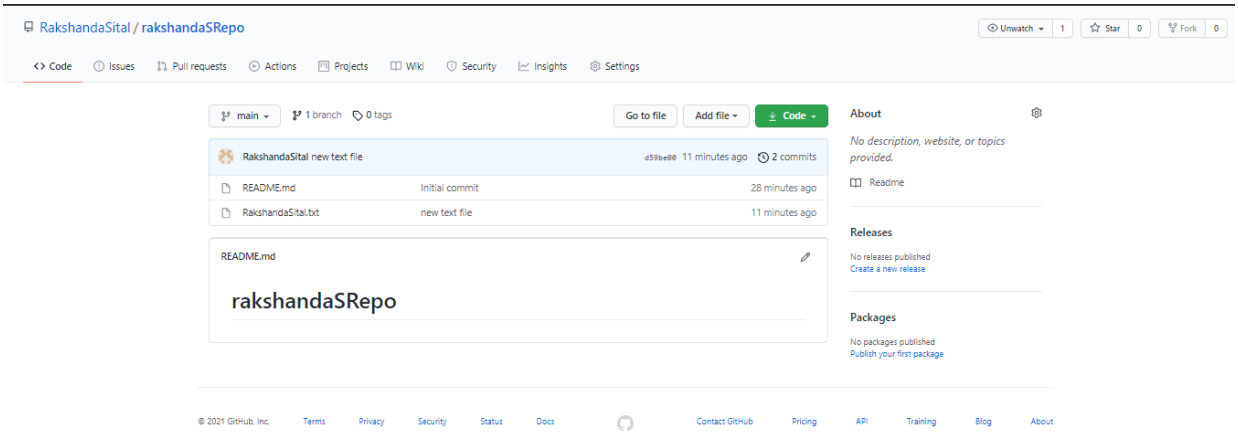



Creating New Branch

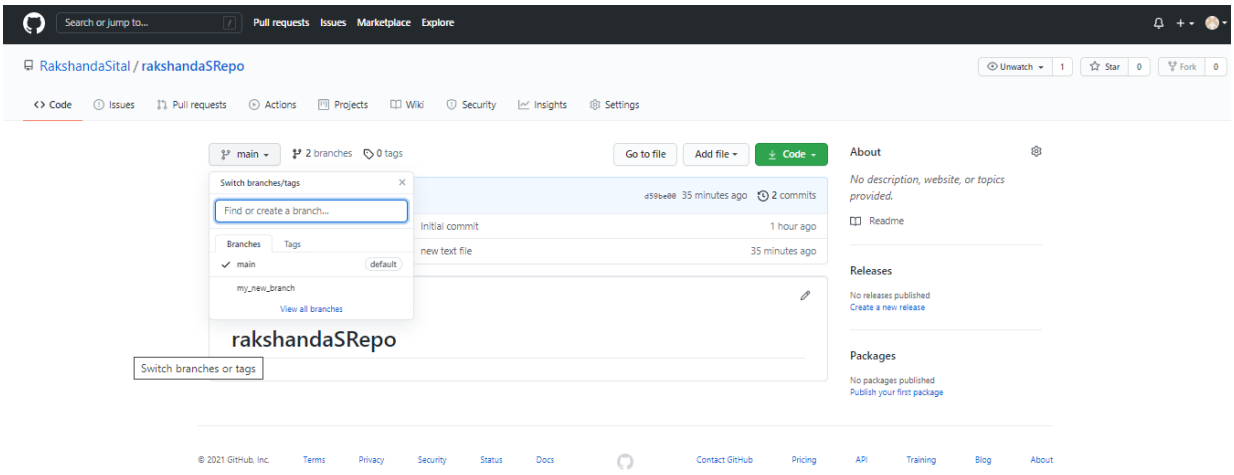
```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git branch my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$
```

Listing branch of Repository

```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git branch my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git branch
* main
  my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$
```

Pushing new branch to repository

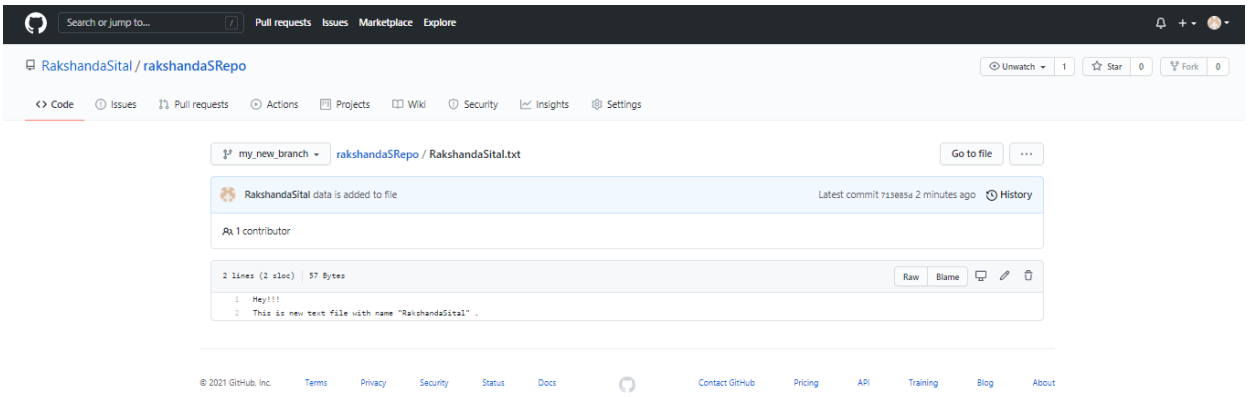
```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git branch
* main
  my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git checkout my_new_branch
Switched to branch 'my_new_branch'

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git branch
  main
* my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git push -u origin my_new_branch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'my_new_branch' on GitHub by visiting:
remote:      https://github.com/RakshandaSital/rakshandaSRepo/pull/new/my_new_branch
remote:
To https://github.com/RakshandaSital/rakshandaSRepo.git
 * [new branch]      my_new_branch -> my_new_branch
Branch 'my_new_branch' set up to track remote branch 'my_new_branch' from 'origin'.

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$
```



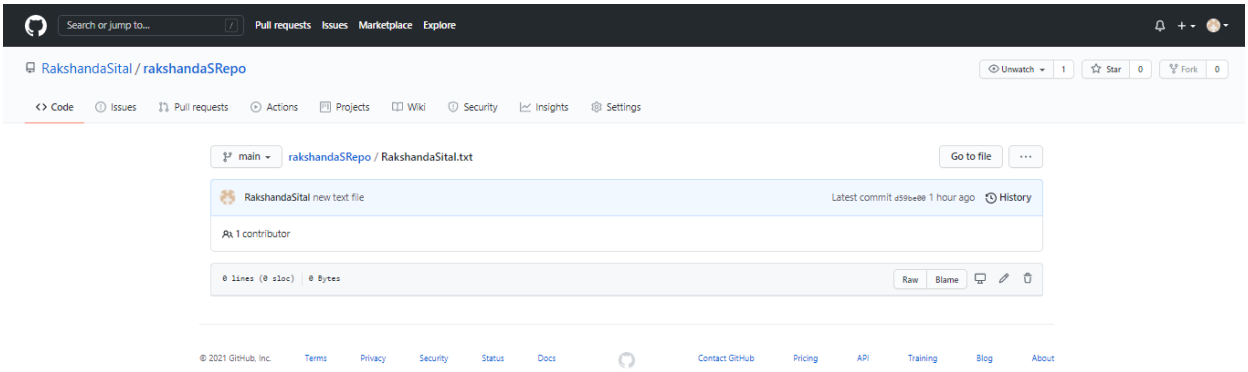
Adding text in file and commit to new branch

```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ cat RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ cat RakshandaSital.txt
Hey!!!
This is new text file with name "RakshandaSital" .
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$
```

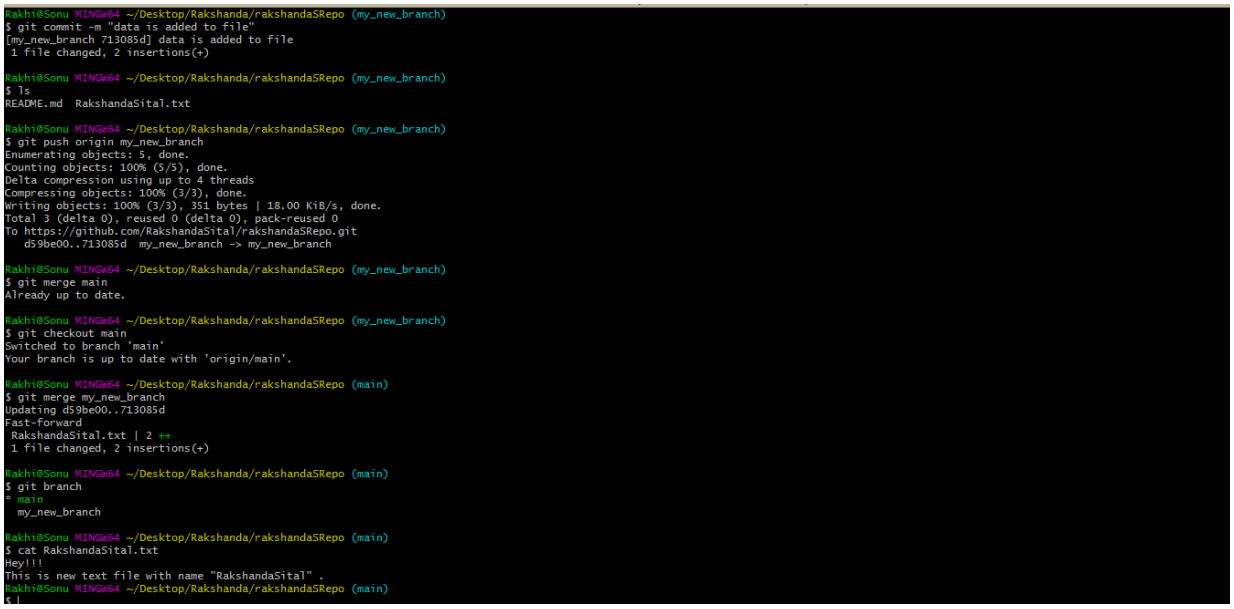
```
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git add RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ ls
README.md  RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ cat RakshandaSital.txt
Hey!!!
This is new text file with name "RakshandaSital" .
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git commit -m "data is added to file"
[my_new_branch 713085d] data is added to file
 1 file changed, 2 insertions(+)

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ ls
README.md  RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git push origin my_new_branch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 351 bytes | 18.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/RakshandaSital/rakshandaSRepo.git
   d59be00..713085d  my_new_branch -> my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$
```



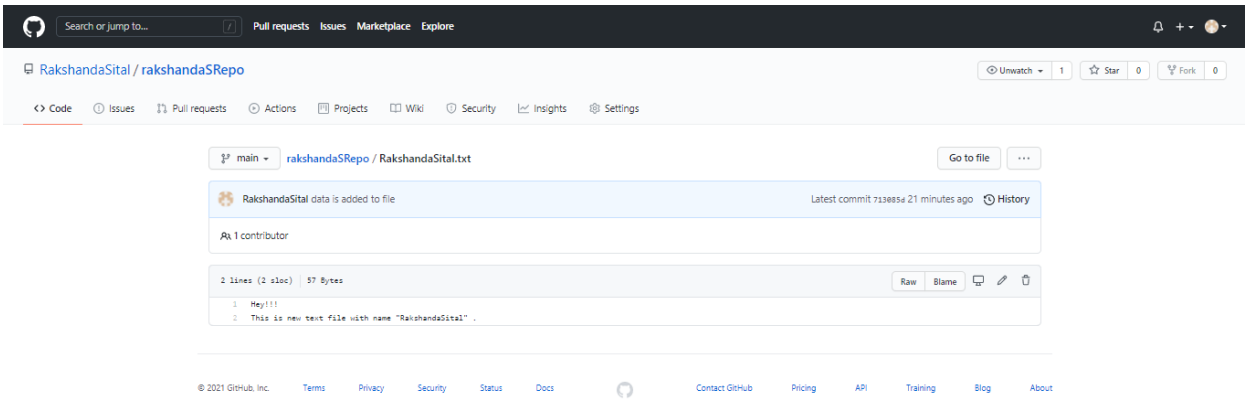
(main branch)

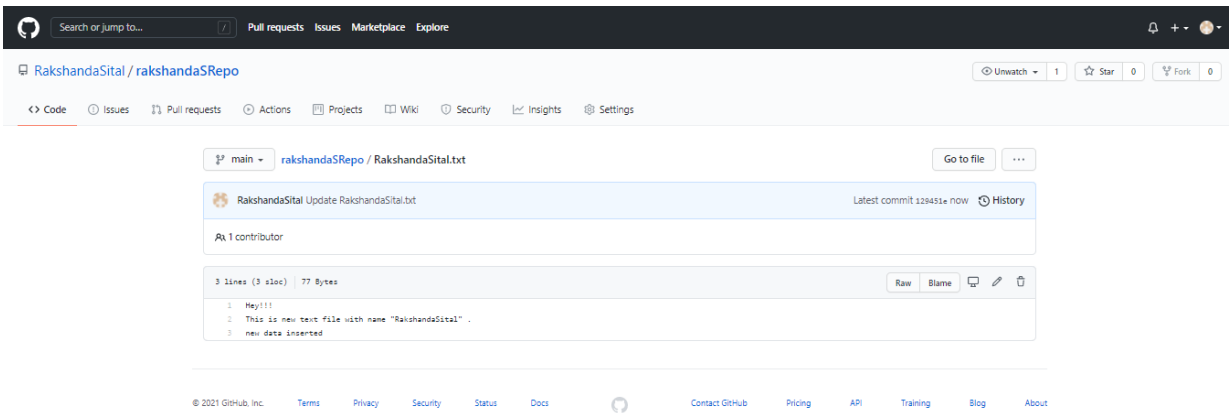
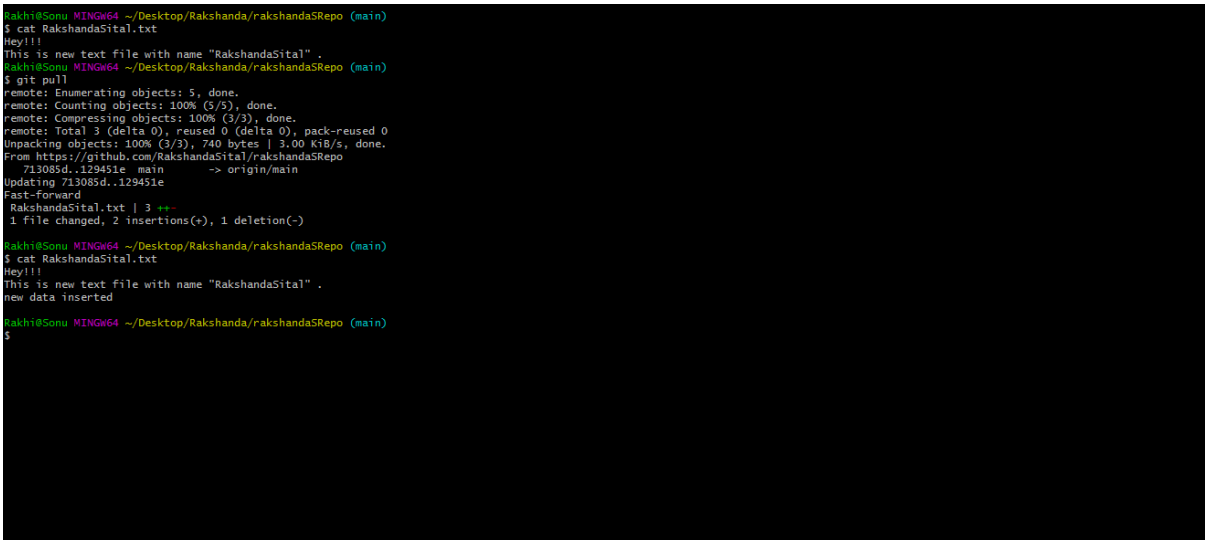


Merging new created branch with main branch



```
$ ls
README.md  RakshandaSital.txt

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git push origin my_new_branch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 351 bytes | 18.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/RakshandaSital/rakshandaSRepo.git
   d59be00..713085d  my_new_branch -> my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git merge main
Already up to date.

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (my_new_branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git merge my_new_branch
Updating d59be00..713085d
Fast-forward
 RakshandaSital.txt | 2 ++
 1 file changed, 2 insertions(+)

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git branch
* main
  my_new_branch

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ cat RakshandaSital.txt
Hey!!!
This is new text file with name "RakshandaSital" .
Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
$ git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/RakshandaSital/rakshandaSRepo.git
   d59be00..713085d  main -> main

Rakhi@Sonu MINGW64 ~/Desktop/Rakshanda/rakshandaSRepo (main)
```





Getting the changes back to computer