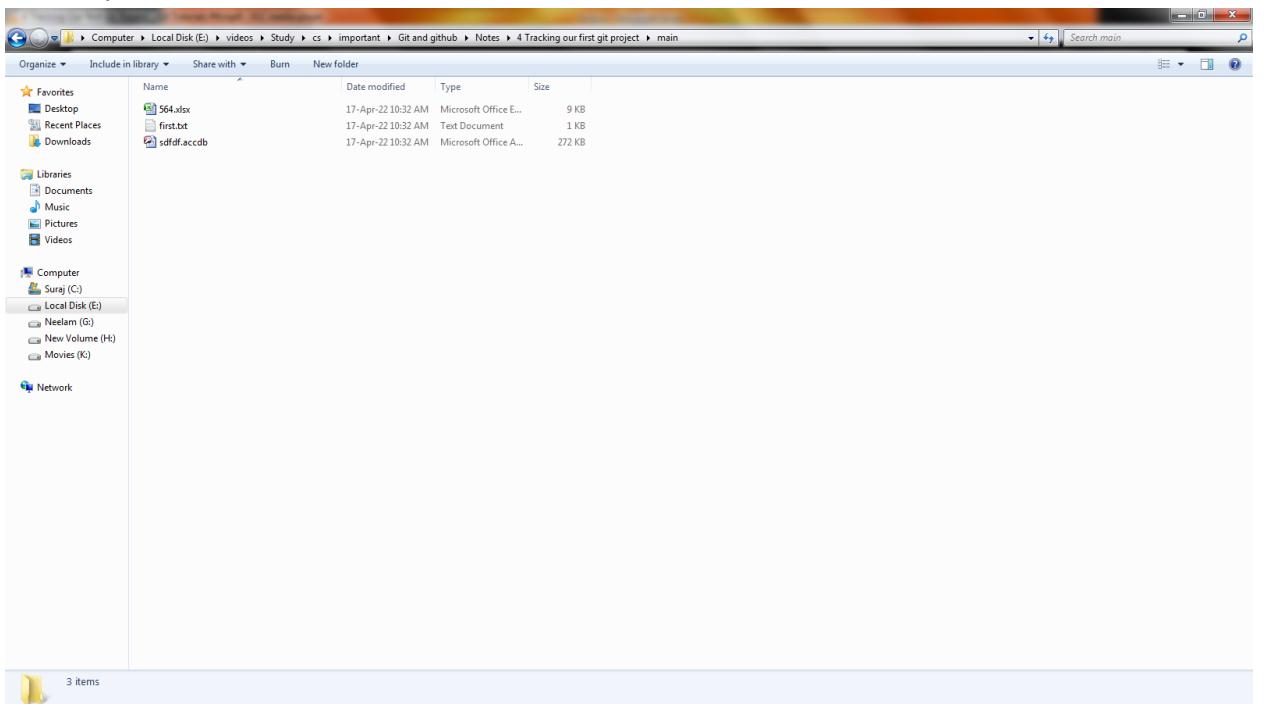


- 1) Let us say we have some files in a folder



- 2) Open git bash terminal and type "git status" then following message will be shown

A screenshot of a terminal window titled 'MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main'. The command 'git status' was run, and the output is:

```
De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git status
fatal: not a git repository (or any of the parent directories): .git

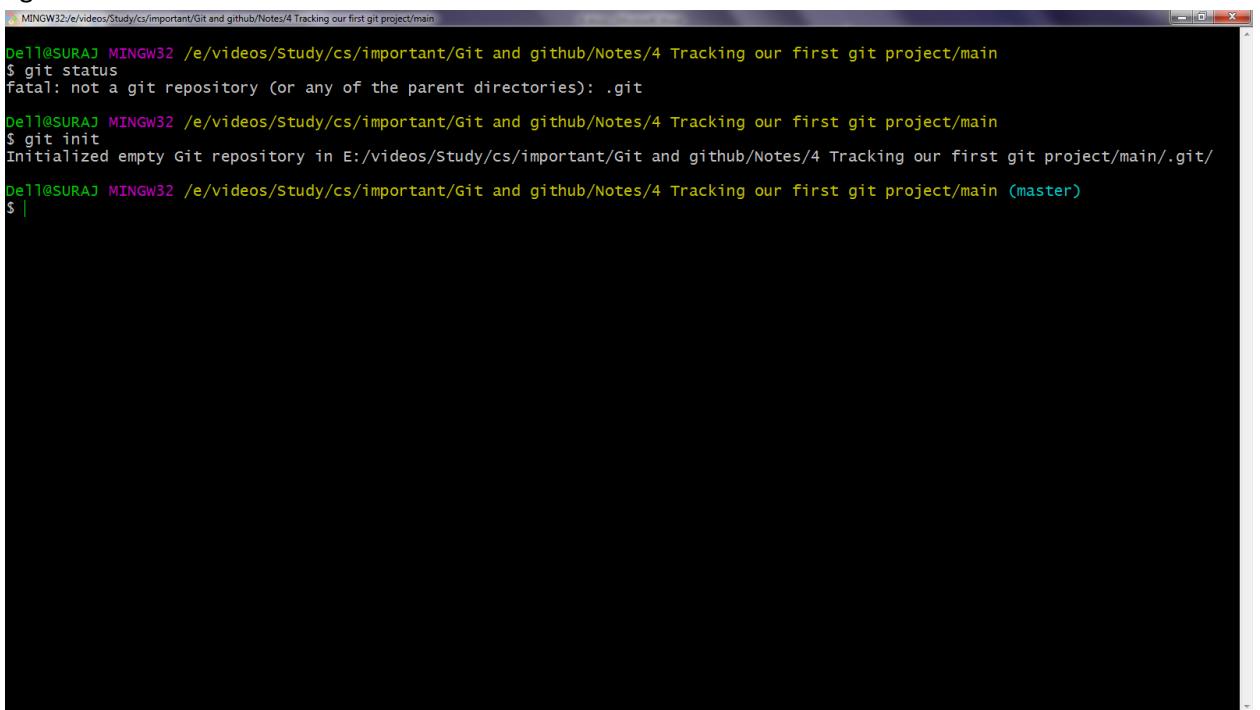
De11@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ |
```

it means this is not a git repository.

We have to check it first always if this was already a git repository then we may damage files in it

- 3) How to initialize a git repository

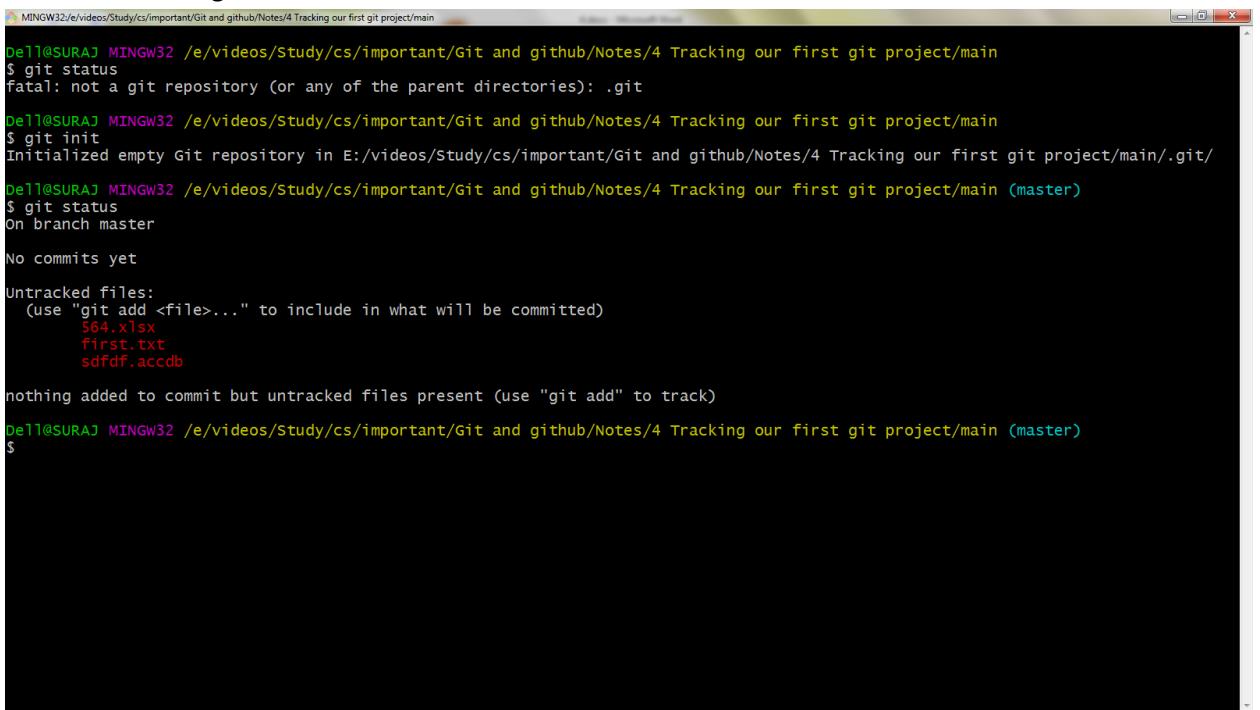
“git init”



```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git status
fatal: not a git repository (or any of the parent directories): .git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git init
Initialized empty Git repository in E:/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main/.git/
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

- 4) Now if we enter “git status”



```
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git status
fatal: not a git repository (or any of the parent directories): .git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git init
Initialized empty Git repository in E:/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main/.git/
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    564.xlsx
    first.txt
    sdfdf.accdb

nothing added to commit but untracked files present (use "git add" to track)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

We are currently on branch “master” → main branch

- 5) Type “git add --a” to add all files to staging area at once. Then “git status” to check status

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git status
fatal: not a git repository (or any of the parent directories): .git

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git init
Initialized empty Git repository in E:/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main/.git/
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    564.xlsx
    first.txt
    sdfdf.accdb

nothing added to commit but untracked files present (use "git add" to track)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add --a

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  564.xlsx
    new file:  first.txt
    new file:  sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

- 6) To commit files type “git commit --m “any message””

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    564.xlsx
    first.txt
    sdfdf.accdb

nothing added to commit but untracked files present (use "git add" to track)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add --a

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  564.xlsx
    new file:  first.txt
    new file:  sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git commit -m "Initial Commit"
[master (root-commit) 7c28f5a] Initial Commit
 3 files changed, 1 insertion(+)
 create mode 100644 564.xlsx
 create mode 100644 first.txt
 create mode 100644 sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

again check git status

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    564.xlsx
    first.txt
    sdfdf.accdb

nothing added to commit but untracked files present (use "git add" to track)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add --a

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  564.xlsx
    new file:  first.txt
    new file:  sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git commit -m "Initial Commit"
[master (root-commit) 7c28f5a] Initial Commit
  3 files changed, 1 insertion(+)
  create mode 100644 564.xlsx
  create mode 100644 first.txt
  create mode 100644 sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

- 7) To see all commits we have done till now type “git log”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add --a

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  564.xlsx
    new file:  first.txt
    new file:  sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git commit -m "Initial Commit"
[master (root-commit) 7c28f5a] Initial Commit
  3 files changed, 1 insertion(+)
  create mode 100644 564.xlsx
  create mode 100644 first.txt
  create mode 100644 sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git log
commit 7c28f5acb26742598c79264d840ab3097196807a (HEAD -> master)
Author: Suraj <yadavsurajkumar665@gmail.com>
Date:   Sun Apr 17 10:43:00 2022 +0530

  Initial Commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

- 8) If we change any file – let say change anything in first.txt file and then run git status. Then it will track it

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
(use "git rm --cached <file>..." to unstage)
new file:   564.xlsx
new file:   first.txt
new file:   sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git commit -m "Initial Commit"
[master (root-commit) 7c28f5a] Initial Commit
 3 files changed, 1 insertion(+)
create mode 100644 564.xlsx
create mode 100644 first.txt
create mode 100644 sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git log
commit 7c28f5acb26742598c79264d840ab3097196807a (HEAD -> master)
Author: Suraj <yadavsurajkumar665@gmail.com>
Date:   Sun Apr 17 10:43:00 2022 +0530

    Initial Commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   first.txt

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |
```

or if we change in another file and then run “git status”

```
MINGW32/e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
create mode 100644 first.txt
create mode 100644 sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
nothing to commit, working tree clean

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git log
commit 7c28f5acb26742598c79264d840ab3097196807a (HEAD -> master)
Author: Suraj <yadavsurajkumar665@gmail.com>
Date:   Sun Apr 17 10:43:00 2022 +0530

    Initial Commit

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   first.txt

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   first.txt
            modified:   sdfdf.accdb

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$
```

- 9) How to put only 1 file in staging area → type “git add filename.extension” and then run “git status”

```

MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   first.txt

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   first.txt
    modified:   sdfdf.accdb

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add first.txt

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   first.txt

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:   sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |

```

- 10) Let's commit that change “git commit –m “changed first.txt and added my name” and then run “git status”

```

MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main
  (use "git restore <file>..." to discard changes in working directory)
    modified:   first.txt
    modified:   sdfdf.accdb

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git add first.txt

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    modified:   first.txt

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:   sdfdf.accdb

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git commit -m "changed first.txt and added my name"
[master ffd8784] changed first.txt and added my name
  1 file changed, 1 insertion(+)

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ git status
On branch master
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:   sdfdf.accdb

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

Dell@SURAJ MINGW32 /e/videos/Study/cs/important/Git and github/Notes/4 Tracking our first git project/main (master)
$ |

```