

### 1.1.1 Using the shell

Git commands are typically performed using the Shell. Understanding some common shell commands allows you to perform more of your Git workflow in the shell without having to spend time navigating different programs.

Example: To check the version of the GIT installed type the following command at the prompt.

**\$ git version**

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~ (master)
$ git version
git version 2.38.0.windows.1

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~ (master)
$ |
```

### 1.1.2 Git Commands

#### 1.1.2.1 *Making a directory, navigating into new directory, creating an empty file and checking the contents of the file.*

Below commands creates a new directory with the name specified.

**\$ mkdir dbp**

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~ (master)
cd dbp

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
touch da3.txt

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
cat da3.txt

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
|
```

#### 1.1.2.2 *Creating a file using **nano** command to add text into the file & Checking the contents of the file using **cat** command.*

```

IGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
nano da3.txt

IGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
cat da3.txt
his is my first change in the file.

IGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)

```

### 1.1.2.3 Working directory - Initializing the folder into repository

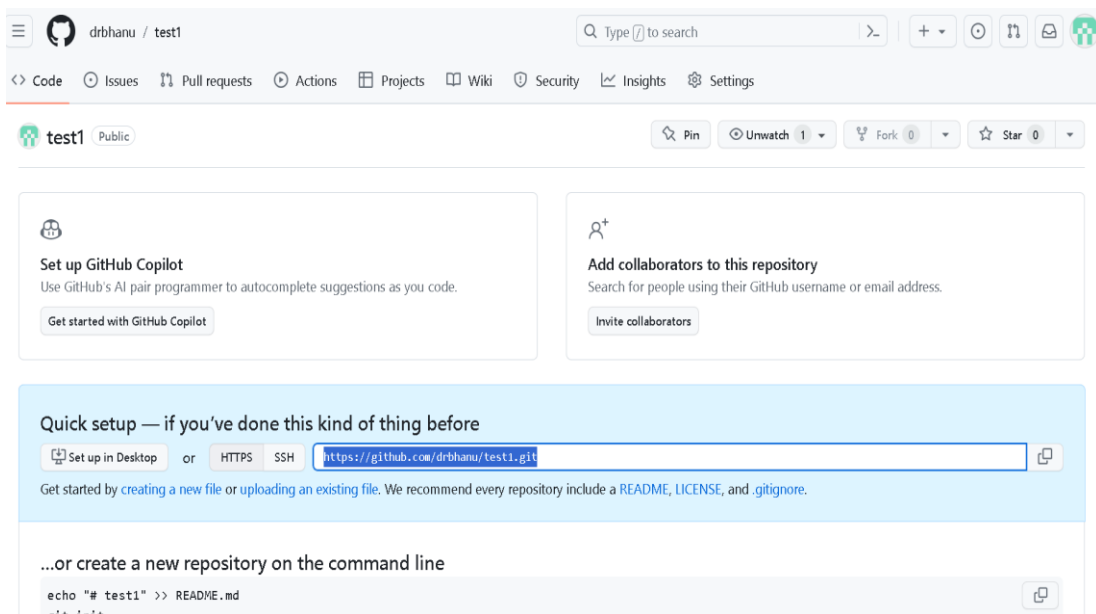
```

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git init
Initialized empty Git repository in c:/Users/TIGBUG/dbp/.git/

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ |

```

### 1.1.2.4 Creating a repository in GIT



The screenshot shows the GitHub web interface for a repository named 'test1' owned by 'drbhanu'. The repository is public. The page includes navigation tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the repository name, there are buttons for Pin, Unwatch (1), Fork (0), and Star (0). The main content area features two cards: 'Set up GitHub Copilot' and 'Add collaborators to this repository'. A 'Quick setup' section provides instructions for cloning the repository using Desktop, HTTPS, or SSH, with the SSH URL 'https://github.com/drbhanu/test1.git' highlighted. It also includes a note about including a README, LICENSE, and .gitignore. At the bottom, there is a section for creating a new repository on the command line with the commands 'echo "# test1" >> README.md' and 'git init'.

### 1.1.2.5 Checking the status of the repository

```

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git status
On branch master

no commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        da3.txt

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

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ |

```

*File with red colour communicates about the file created we need to add the file to staging area*

```

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git add da3.txt
warning: in the working copy of 'da3.txt', LF will be replaced by CRLF
if you convert it.

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   da3.txt

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$

```

*File turns into green colour when it is added to staging area successfully for committing*

```

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git commit -m "first commit done on da03 by Bhanu"
[master (root-commit) ecb92d3] first commit done on da03 by Bhanu
1 file changed, 1 insertion(+)
create mode 100644 da3.txt

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$

```

#### **1.1.2.6 Establishing connection to remote repository.**

```

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git remote add origin https://github.com/drbhanu/test1.git

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ |


```


### 1.1.2.7 Moving files to remote repository

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 258 bytes | 258.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/drbbhanu/test1.git
 * [new branch]      master -> master

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ |
```

### 1.1.2.8 Check the web version of the repository for the updated version

 drbbhanu first commit done on da03 by Bhanu ecb92d3 3 minutes ago 🕒 1 commit


 [da3.txt](#) first commit done on da03 by Bhanu 3 minutes ago

da3.txt

Help people interested in this repository understand your project by adding a README. [Add a README](#)

### Checking the contents


[test1](#) / [da3.txt](#) 

 drbbhanu first commit done on da03 by Bhanu

Code

Blame

1 lines (1 loc) • 37 Bytes

 Code 55% faster with GitHub Copilot

1

this is my first change in the file.

### 1.1.2.9 Checking the log.

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git log
commit ecb92d3d76e1f0c73f21f58b6061a3b1a0caa6ee (HEAD -> master, origin/master)
Author: drbbhanu <bhanu.doppala@gmail.com>
Date:   Sun Sep 3 18:24:01 2023 +1000

    first commit done on da03 by Bhanu

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ |
```

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$ git annotate da3.txt
ecb92d3d      ( drbhenu    2023-09-03 18:24:01 +1000      1)this is my first change in the file
.
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/dbp (master)
$
```

#### *1.1.2.10 Cloning the repository.*

```
TIGBUG@DESKTOP-4DQISG5 MINGW64 ~ (master)
$ cd clone

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/clone (master)
$ git init
initialized empty Git repository in c:/Users/TIGBUG/clone/.git/

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/clone (master)
$ git clone https://github.com/kb22/Heart-Disease-Prediction
Cloning into 'Heart-Disease-Prediction'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
receiving objects: 100% (14/14), 179.25 KiB | 2.19 MiB/s, done.
resolving deltas: 0% (0/4)
resolving deltas: 100% (4/4), done.

TIGBUG@DESKTOP-4DQISG5 MINGW64 ~/clone (master)
$
```