

Aim: To create GIT account for Testing to Version Control.

HOW TO INSTALL AND CONFIGURE GIT AND GITHUB ON UBUNTU (LINUX)

STEP 1: To Create a GIT Account

- Open the browser and search for GitHub – github.com click on it.
- If you are new to GitHub you can Sign up (or) Sign in directly with login details.
- Logged into the GitHub account.
- Now you can see the screen like **Read the guide** and **Start a project**
- You can also see the **Repositories** on left side and new Repository

Now click on New Repository

- Give the name of Repository
Ex: /Javaprograms
- **Public** – Free(choose)
- **Private** – you have to pay
- **Check Box Readme**
- **Add gitignore : None**
- **Choose License – MIT License**
- Click on **Create Repository**
- Now you can see the Repository
- **Now Again go to Terminal:**
To Configure your account : `$ git config --global user.name “_____”`
`$ git config --global user.email “_____”`
`$ git config --list`
user.name = _____
user.email = _____@gmail.com

If you want to see where this file is located in ubuntu

- Go To home Directory / Already in home directory
- To list all the files: `>$ ls -al`
- Now we can search for git config: `>$gedit .gitconfig`
- Now you will be able to see the all configuration you have done
- Now we are ready to use GIT with GIT terminal

STEP 2 : CLONING

- If we want to clone the Javaprograms in my ubuntu operating system.
First: Create one directory.

`>$ mkdir git_workspace`

Now again go to browser and open git account.

- There click on **CLONE** you will get a url : “**https:\.....**” Copy url.

Open command prompt or Terminal.

```
>$ /git_workspace $ git clone https:\.....
```

- Cloning into JavaRepository.

Check it once : you have Cloned or not:

```
>git_workspace $ ls
```

Javaprograms (done)

Now :

```
>git_workspace $ cd Javaprograms
```

```
Git_workspace/Javaprograms $ ls
```

License Readme.md(done) (both files).

- Now lets create a Java program here : into the GIT hub

```
>git_workspace/Javaprograms $ touch Helloworld.java.
>git_workspace/Javaprograms $ ls
Helloworld.java License Readme.md
>gedit Helloworld.java
{
    -> Simple program
}
```

- To know the status :

```
>$ git status
```

“**Helloworld.java**” in red colour.

To add to git use the following Command

```
>$ git add Helloworld.java
```

Again to know the status :

```
>$ git status
```

“**Helloworld.java**” in green colour.

STEP 3 : TO COMMIT

- \$ git Commit -m "first Java Program"

Your file is committed.

- >\$git push -u origin master

Username : _____

(github) Password : _____

Now all the files are transferred to git hub repository.

Now again go to GIT browser and Refresh it.

How to Delete Lock Files

- sudo rm /var/lib/dpkg/lock
- sudo dpkg --configure -a
- sudo rm /var/lib/apt/lists/lock
- sudo rm /var/cache/apt/archives/lock
- sudo apt update
- (or)**
- sudo apt-get update

After Commit how to push your program

1. Log in to Github
2. Click on you name/Avatar in the upper right corner end select settings
3. On the left, click Developer setting
4. Select Personal access tokens and click Generate new token
5. Give the token a description/name and select the scope of the token
 - Select repo only to facilitate pull, push, clone, and commit actions
6. Generate Token
7. Copy the token- this is your password