Getting started with git

1. 1st question

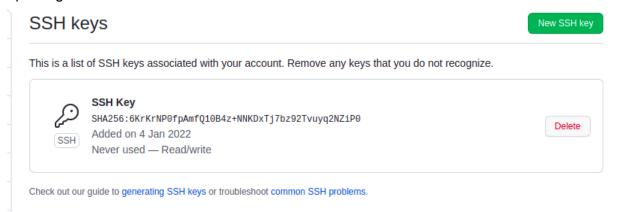
Generating ssh key

So, here public and private key pairs are generated.

```
ignitarium@IGN-BLR-LP-215:~$ cd /home/ignitarium/.ssh
ignitarium@IGN-BLR-LP-215:~/.ssh$ ls
id_rsa id_rsa.pub
ignitarium@IGN-BLR-LP-215:~/.ssh$ []
```

Here both keys are generated in the given path. id_rsa is private key and id_rsa.pub is a public key

Updating in the server



2. 2nd question

Configuring username and email using git config

```
ignitarium@IGN-BLR-LP-215:~/git_getting_started$ git config --global user.name VegiMohnish ignitarium@IGN-BLR-LP-215:~/git_getting_started$ git config --global user.email vegimohnish@gmail.com
ignitarium@IGN-BLR-LP-215:~/git_getting_started$ git config --list
user.name=VegiMohnish
user.email=vegimohnish@gmail.com
core.repositoryformatversion=0
core.filemode=true
core.bare=false
core.logallrefupdates=true
ignitarium@IGN-BLR-LP-215:~/git_getting_started$
```

3. 3rd question

Clone empty repository in local system

```
lgnitarium@IGN-BLR-LP-215:~/<mark>git_getting_starte</mark>d$ git clone https://github.com/VegiMohnish/training.git
Cloning into 'training'...
warning: You appear to have cloned an empty repository.
ignitarium@IGN-BLR-LP-215:~/git_getting_started$
```

4. 4th question

```
4. 4th question

Ignitarium@IGN_BLR_LP-215:-/git$ git init

Initialized empty Git repository in /home/ignitarium/git/.git/
ignitarium@IGN_BLR_LP-215:-/git$ git remote add origin "/home/ignitarium/editing_and_browsing_code.pdf
> /home/ignitarium/git_getting_started.pdf
> /home/ignitarium/linux_shell.pdfc

Ignitarium@IGN_BLR_LP-215:-/git$ git remote add origin "https://github.com/VegiMohnish/training.git"
Ignitarium@IGN_BLR_LP-215:-/git$ git remote -v
origin https://github.com/VegiMohnish/training.git (push)
Ignitarium@IGN_BLR_LP-215:-/git$ git add .
Ignitarium@IGN_BLR_LP-215:-/git$ git commit -m "my training exercises"

[master (root-commit) 29e0e53] my training exercises
22 files changed, 86 insertions(+)
create mode 100644 git_getting_started.pdf
create mode 100644 git_getting_started.pdf
create mode 100644 linux.shell.pdf
create mode 100644 linux.shell.pdf
create mode 100644 linux.shell/andquestion.png
create mode 100644 linux.shell/sindquestion.png
create mode 100644 linux
```

5. 5th question

Added my_exercise.txt file in the root directory

6. 6th question

Guidelines for commit

7. 7th question

- → add : add files content to the index. takes a modified file in your working directory and places the modified version in a staging area.
- → commit: takes everything from the staging area and makes a permanent snapshot of the current state of your repository that is associated with a unique identifier.

- → rm : used to remove individual or group of files
- → log: Git log is a utility tool to review and read a history of everything that happens to a repository

```
ignitarium@IGN-BLR-LP-215:~/git/linuxshell$ git log
commit 872087d58e690875f70484d9026a81a0b4983553 (HEAD -> master)
Author: VegiMohnish <vegimohnish@gmail.com>
Date: Wed Jan 5 18:33:04 2022 +0530

    file 8.sh is modified

commit 29e0e53d35faeb6ba452f8ad2f73492054a28c36 (origin/master)
Author: VegiMohnish <vegimohnish@gmail.com>
Date: Tue Jan 4 22:30:09 2022 +0530

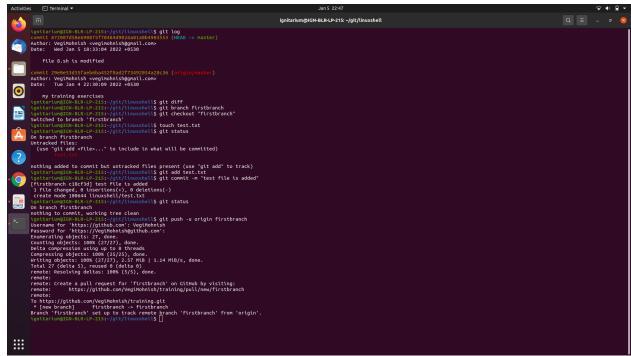
    my training exercises
ignitarium@IGN-BLR-LP-215:~/git/linuxshell$ []
```

- → show: Show various types of objects
- → diff: Show changes between commits, commit and working tree, etc
- → push: The git push command is used to upload local repository content to a remote repository.

Referred link:

https://www.earthdatascience.org/workshops/intro-version-control-git/basic-git-commands/

8. 8th question



9. 9th question

To be done

10. 10th question

<u>git fetch</u> is the command that tells your local git to retrieve the latest meta-data info from the original (yet doesn't do any file transferring. It's more like just checking to see if there are any changes available).

git pull on the other hand does that AND brings (copy) those changes from the remote repository.

Referred this: https://www.freecodecamp.org/news/git-fetch-vs-pull/

11. 11th question

.gitignore file -> text file that tells git which files or folders to ignore in the project.

Referred this for .gitignore:

https://www.freecodecamp.org/news/gitignore-what-is-it-and-how-to-add-to-repo/

.gitattribute file -> simple text file that gives attributes to pathnames

Referred this for .gitattribute: https://git-scm.com/docs/gitattributes

12. 12th question

Referred this link: https://git-scm.com/docs/git-config

THANK YOU!!!