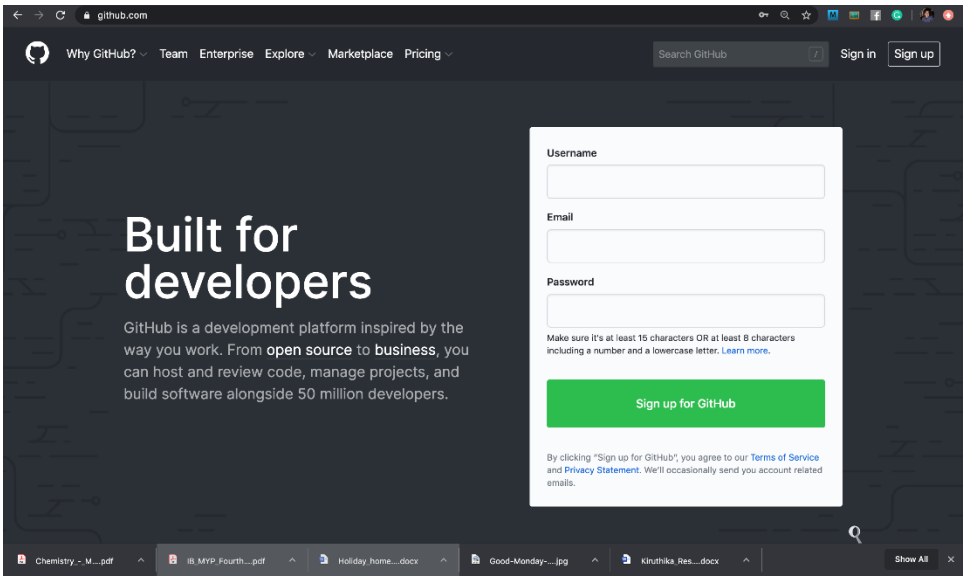
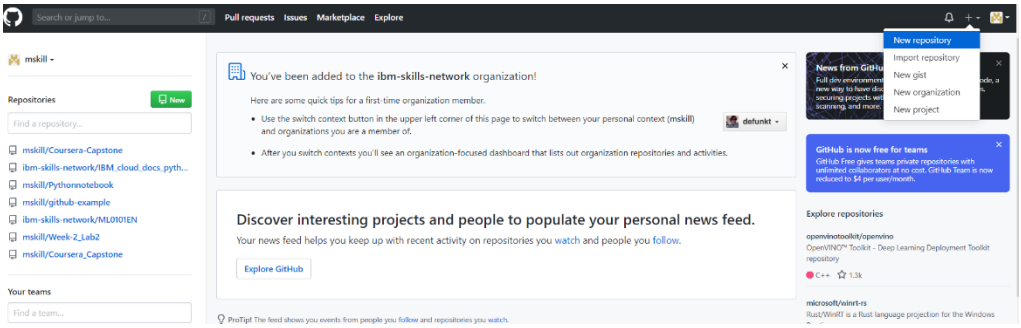
GITHUB – PART-1

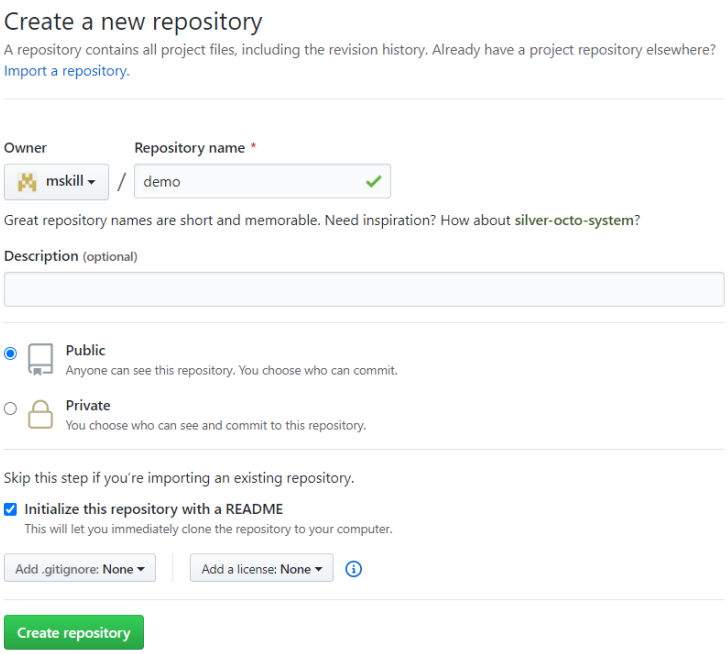
1) Create a GitHub account using https://github.com/. Use your personal email address and official emails come with restrictions.



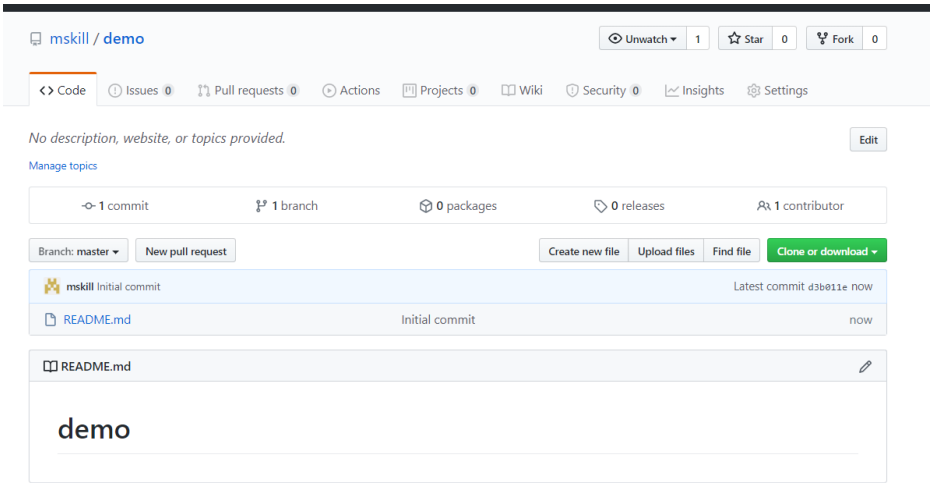
2) Create a new repository (it's a container where all stuff goes) using the + sign as shown below:



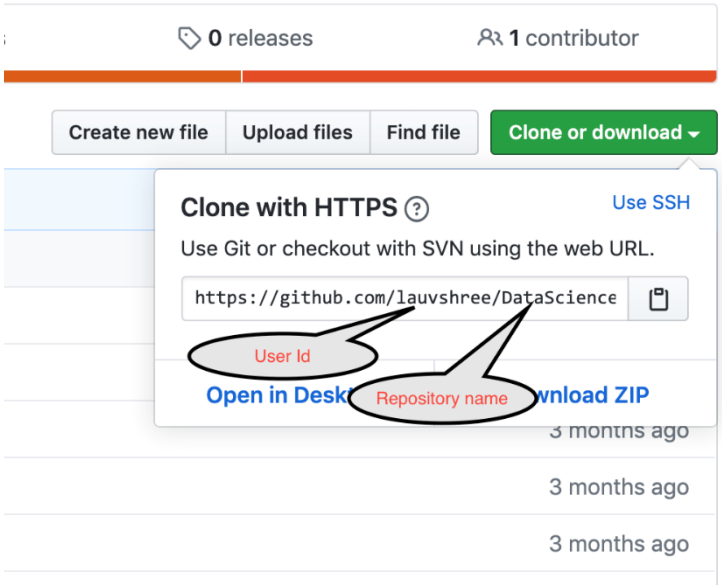
3) Provide the necessary details like repository name. Select repository as Public and initialize the READMD. Click 'Create'

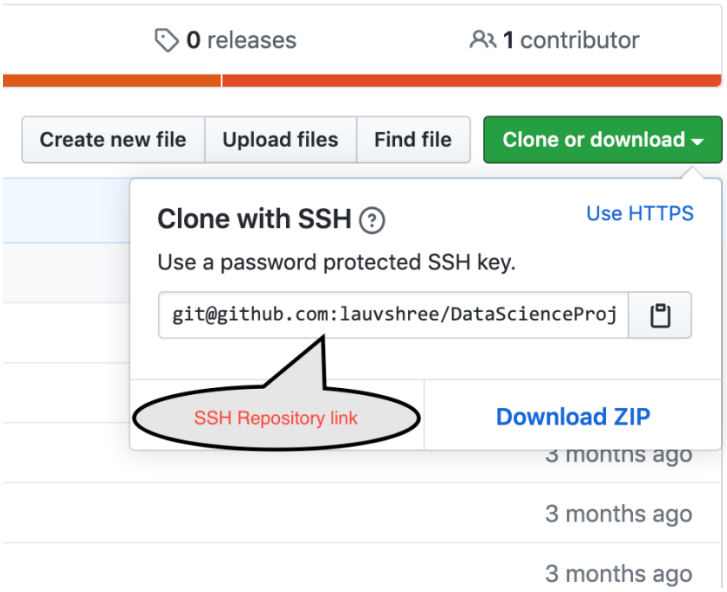


4) Now, your repository is created, and it looks as:



5) To download the repository, we have option ‘Clone and download’. Also, there are two options to copy repository locally using ‘SSH’ and ‘HTTPS’





6) Copy the SSHRepositoryLink on to your clipboard.
7) These instructions presume that you have SSH key generated. However, if you don't have one please follow the step-by-step procedure in this link (https://help.github.com/en/enterprise/2.15/user/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent) before you proceed further.

8) Open the command prompt or terminal to use the GitHub commands:
To change the directory simply use:
`cd <name of the directory you want to change to>`

To go to the folder **“Downloads”** use: `cd Downloads`
Create a empty folder in Downloads using SSH repository link that we have created in GitHub Repository as:
`git clone pastesshrepositorylinkhere`

Now, the folder is copied to my ‘Downloads’. Just check the ‘Downloads’ have you got the folder demo?

9) To check my folder, enter the folder using cd command again as:
`cd demo`

10) Get the list of the files in the folder demo, use:
For Windows: `dir`
For Mac: `ls`

```
C:\Users\Skill07\Downloads\demo>dir
 Volume in drive C has no label.
 Volume Serial Number is A20C-B44D

 Directory of C:\Users\Skill07\Downloads\demo

05/30/2020  09:13 PM    <DIR>          .
05/30/2020  09:13 PM    <DIR>          ..
05/30/2020  09:13 PM                 6 README.md
               1 File(s)              6 bytes
               2 Dir(s)  96,149,942,272 bytes free
```

11) To view the content of the file:
For Windows: `type README.md`
For Mac: `cat README.md`

```
C:\Users\Skill07\Downloads\demo>type README.md
# demo
```

12) To open a README.md file:
For Windows: `notepad README.md`
For Mac: `open README.md`

13) To create a new file:
For Windows: `notepad test.txt`
For Mac: `vi test.txt`

14) Add to the repository:
For Windows/Mac: `git add test.txt`

Check the status of the file using:
`git status`

```
C:\Users\Skill07\Downloads\demo>notepad test.txt

C:\Users\Skill07\Downloads\demo>git add test.txt

C:\Users\Skill07\Downloads\demo>git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   test.txt
```

Similarly, add the new file as shown below:

```
C:\Users\Skill07\Downloads\demo>notepad test2.txt

C:\Users\Skill07\Downloads\demo>git add test2.txt

C:\Users\Skill07\Downloads\demo>git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   test.txt
        new file:   test2.txt
```

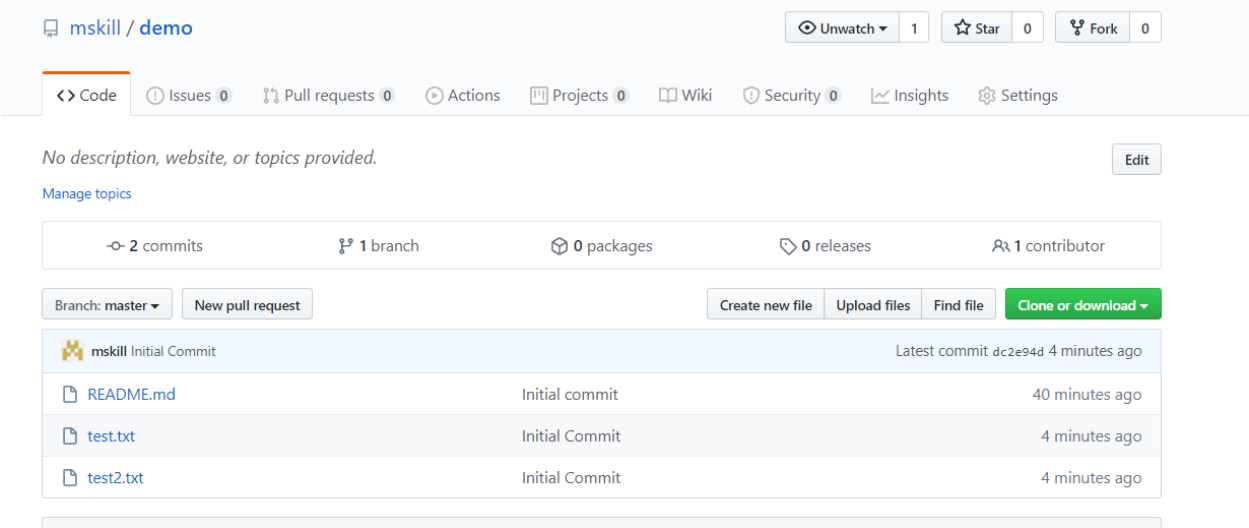
Commit the changes in the repository using:
`git commit -m “write message here”`

```
C:\Users\Skill07\Downloads\demo>git commit -m "Initial Commit"
[master dc2e94d] Initial Commit
 2 files changed, 2 insertions(+)
 create mode 100644 test.txt
 create mode 100644 test2.txt
```

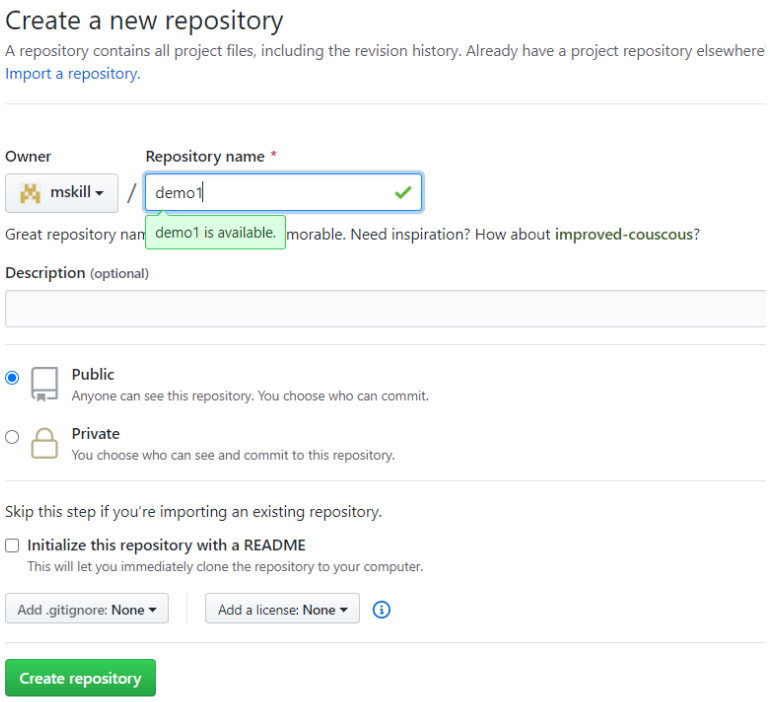
Push the file to remote repository using:
`git push`

```
C:\Users\Skill07\Downloads\demo>git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 366 bytes | 122.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo.git
   d3b011e..dc2e94d  master -> master
```

Now, this make the changes in my GitHub repository



Create a repository now without README.md file



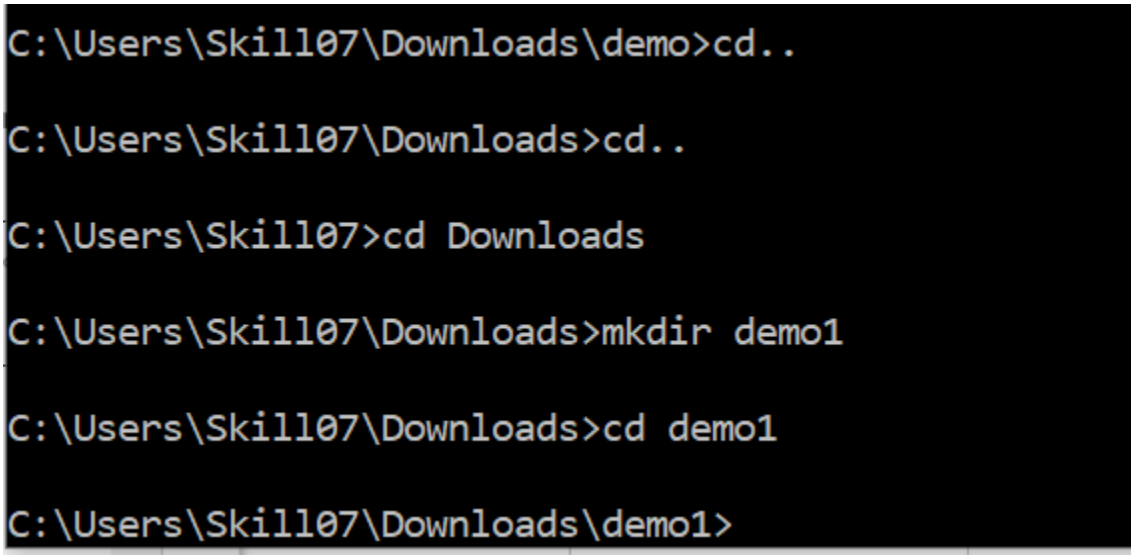
Copy the SSHRepositoryLink on to your clipboard just as in Step 6.

To come out from the demo folder first use

`cd ..`

To make a directory in download folder:

```
mkdir demo1
cd demo1
```



To create a readmd file use

```
echo "# demo1" >> README.md
```

Initialize the directory

```
git init
```

Create and add a README.md file. You can use a normal text editor depending on which OS you are using.

```
git add README.md
```

Check the status of the file

```
git status
```

Commit the changes

```
git commit -m "first commit"
```

Add the origin where we have to push the file. This is the SSHRepositoryLink you copied when you created the repository.

```
git remote add origin git@github.com:mskill/demo1.git
```

Push the file

```
git push -u origin master
```

```
C:\Users\Skill07\Downloads\demo1>echo "# demo1" >> README.md

C:\Users\Skill07\Downloads\demo1>git init
Initialized empty Git repository in C:/Users/Skill07/Downloads/demo1/.git/

C:\Users\Skill07\Downloads\demo1>git add README.md

C:\Users\Skill07\Downloads\demo1>git status
On branch master

No commits yet

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


C:\Users\Skill07\Downloads\demo1>git commit -m "first commit"
[master (root-commit) a74d8ad] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 README.md

C:\Users\Skill07\Downloads\demo1>git remote add origin git@github.com:mskill/demo1.git

C:\Users\Skill07\Downloads\demo1>git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 218 bytes | 72.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To github.com:mskill/demo1.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
```

Now, the README.md file is created in our repository