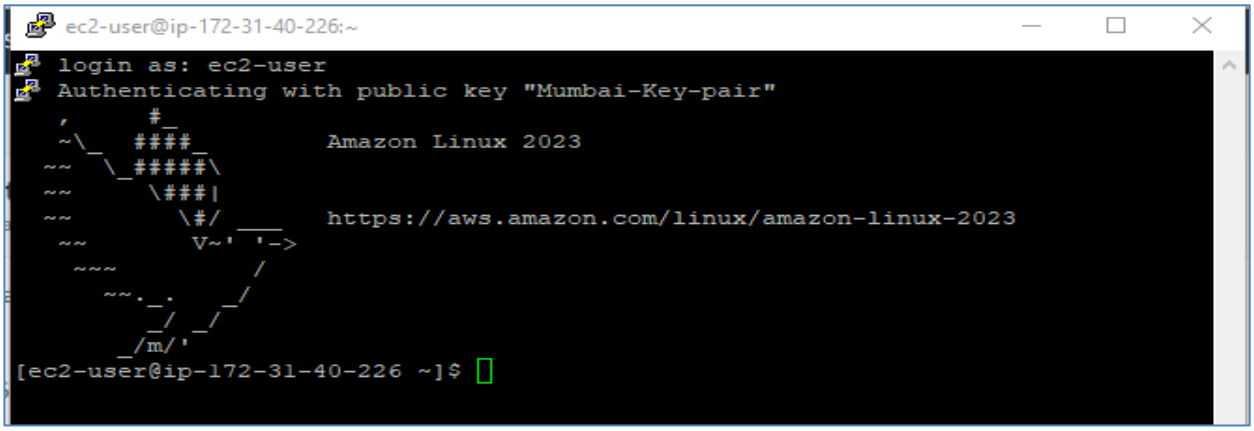
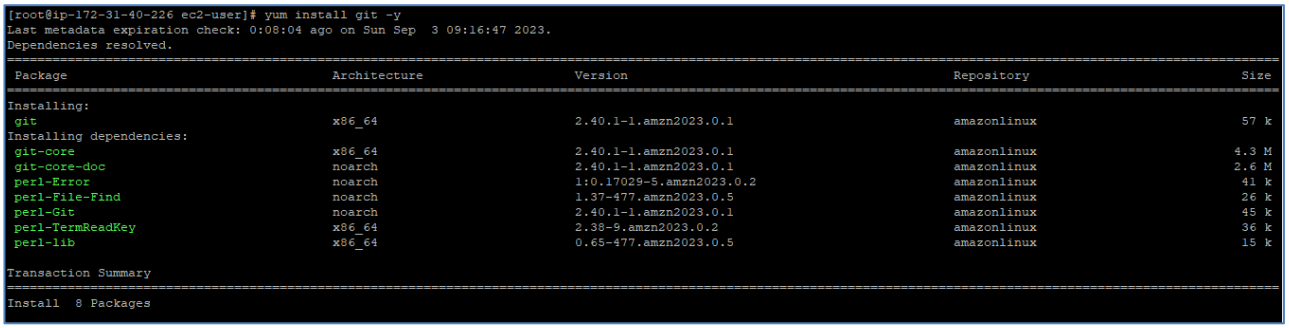
EXPERMINT: 03

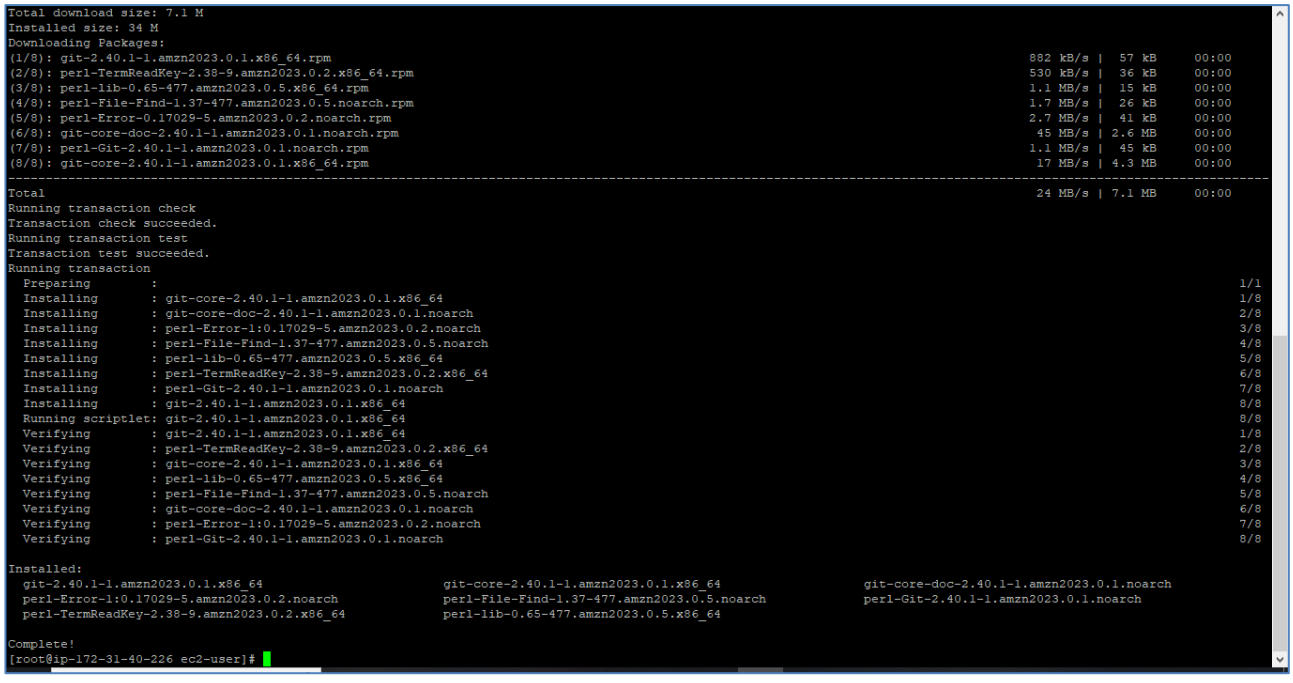
- **Aim**: Practice Source code management on GitHub. Experiment with the source code written in exercise 1.

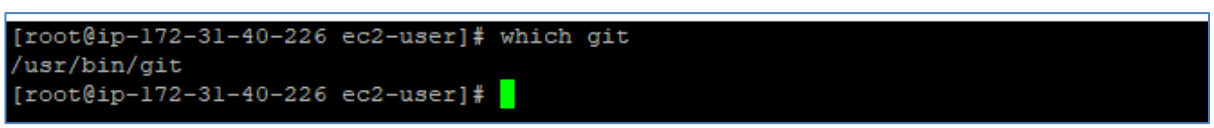
- **Output:**

Mumbai



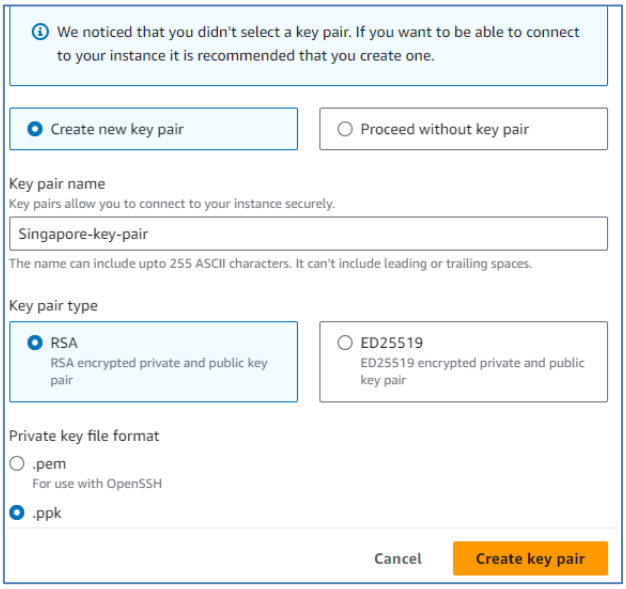


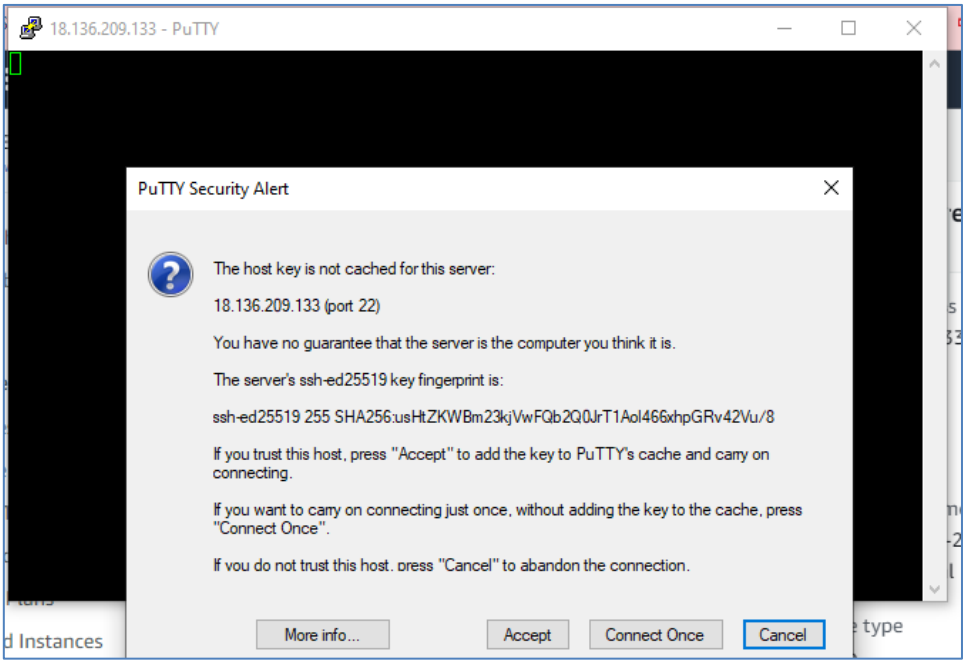




```
[root@ip-172-31-40-226 ec2-user]# git --version
git version 2.40.1
[root@ip-172-31-40-226 ec2-user]#
```

```
root@ip-172-31-40-226:/home/ec2-user
[root@ip-172-31-40-226 ec2-user]# which git
/usr/bin/git
[root@ip-172-31-40-226 ec2-user]# git --version
git version 2.40.1
[root@ip-172-31-40-226 ec2-user]# git config --global user.name "Priyush02K"
[root@ip-172-31-40-226 ec2-user]# git config --global user.email "collegeinfopk02@gmail.com"
[root@ip-172-31-40-226 ec2-user]# git config -- list
error: key does not contain a section: list
[root@ip-172-31-40-226 ec2-user]# git config --list
user.name=Priyush02K
user.email=collegeinfopk02@gmail.com
[root@ip-172-31-40-226 ec2-user]#
```





Singapore

```
login as: ec2-user
Authenticating with public key "Singapore-key-pair"
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-172-31-20-215 ~]$ sudo su
[root@ip-172-31-20-215 ec2-user]# yum update -y
Last metadata expiration check: 0:04:29 ago on Sun Sep  3 09:39:04 2023.
Dependencies resolved.
Nothing to do.
Complete!
```

```
Last login: Sun Sep  3 10:20:48 2023 from 49.36.96.161
[ec2-user@ip-172-31-40-226 ~]$ git show
fatal: not a git repository (or any of the parent directories): .git
[ec2-user@ip-172-31-40-226 ~]$ sudo su
[root@ip-172-31-40-226 ec2-user]# ls
mumbaigit
[root@ip-172-31-40-226 ec2-user]# git log
fatal: not a git repository (or any of the parent directories): .git
[root@ip-172-31-40-226 ec2-user]# cd mumbaigit
[root@ip-172-31-40-226 mumbaigit]# git init
Reinitialized existing Git repository in /home/ec2-user/mumbaigit/.git/
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
nothing to commit, working tree clean
[root@ip-172-31-40-226 mumbaigit]# cat >mumbaif
Priyush B khobragade
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        mumbaif

nothing added to commit but untracked files present (use "git add" to track)
[root@ip-172-31-40-226 mumbaigit]# git commmit -m "Done"
git: 'commmit' is not a git command. See 'git --help'.
```

```
nothing added to commit but untracked files present (use "git add" to track)
[root@ip-172-31-40-226 mumbaigit]# git add .
[root@ip-172-31-40-226 mumbaigit]# git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   mumbaif

[root@ip-172-31-40-226 mumbaigit]# git commit -m "Done"
[master db29842] Done
 1 file changed, 1 insertion(+)
 create mode 100644 mumbaif
[root@ip-172-31-40-226 mumbaigit]# git log
commit db29842eb636e3b6485b04778e2bf3f0ee8e7a9c (HEAD -> master)
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:35:01 2023 +0000

    Done

commit 46a4442bfd852e29d30fdf1d87bd7d64637cd5f6
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:25:53 2023 +0000

    My first Commit
[root@ip-172-31-40-226 mumbaigit]# git show 46a4442bfd
commit 46a4442bfd852e29d30fdf1d87bd7d64637cd5f6
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:25:53 2023 +0000

    My first Commit
```

```
[root@ip-172-31-40-226 mumbaigit]# git commit -m "done2"
[main 8baa3d0] done2
 1 file changed, 1 insertion(+)
 create mode 100644 mumbaiif
[root@ip-172-31-40-226 mumbaigit]# git status
On branch main
nothing to commit, working tree clean
[root@ip-172-31-40-226 mumbaigit]# git log
commit 8baa3d0b1bf5f104b7048bb10057a65eb9ed19b6 (HEAD -> main)
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 11:10:00 2023 +0000

    done2

commit afaee64fd5b80752c95b5fbae236e5718c1b2a3c
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 11:00:22 2023 +0000

    first commit

commit db29842eb636e3b6485b04778e2bf3f0ee8e7a9c
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:35:01 2023 +0000

    Done

commit 46a4442bfd852e29d30fdf1d87bd7d64637cd5f6
Author: Priyush02K <collegeinfopk02@gmail.com>
Date:   Sun Sep 3 10:25:53 2023 +0000
```

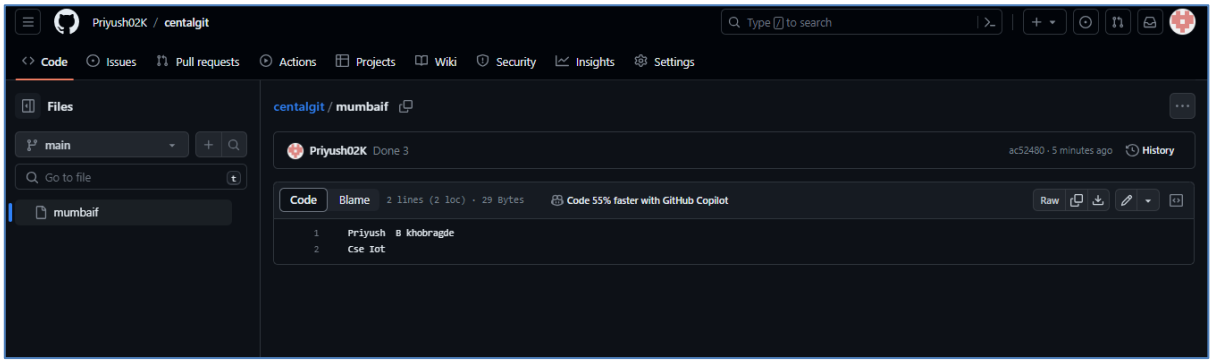
```
login as: ec2-user
Authenticating with public key "Singapore-key-pair"
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sun Sep  3 09:42:34 2023 from 49.36.96.161
[ec2-user@ip-172-31-20-215 ~]$ sudo su
[root@ip-172-31-20-215 ec2-user]# makdir sigaporegit
bash: makdir: command not found
[root@ip-172-31-20-215 ec2-user]# mkdir sigaporegit
[root@ip-172-31-20-215 ec2-user]# ls
sigaporegit
[root@ip-172-31-20-215 ec2-user]# cs sigaporegit/
bash: cs: command not found
[root@ip-172-31-20-215 ec2-user]# cs sigaporegit
bash: cs: command not found
[root@ip-172-31-20-215 ec2-user]# cd sigaporegit
[root@ip-172-31-20-215 sigaporegit]# git init
hint: Using 'master' as the name for the initial branch. This default branch nam
e
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ec2-user/sigaporegit/.git/
[root@ip-172-31-20-215 sigaporegit]# git ls -a
git: 'ls' is not a git command. See 'git --help'.

The most similar command is
        log
[root@ip-172-31-20-215 sigaporegit]#  ls -a
.  ..  .git
```

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   mumbai
        new file:   mumbaif

[root@ip-172-31-20-215 sigaporegit]# git commit -m "Done3"
[master (root-commit) b0eb88b] Done3
 2 files changed, 1 insertion(+)
 create mode 100644 mumbai
 create mode 100644 mumbaif
[root@ip-172-31-20-215 sigaporegit]# git status
On branch master
nothing to commit, working tree clean
[root@ip-172-31-20-215 sigaporegit]# git log
commit b0eb88ba06b350d1b907eff8257c2fd6dc51cf9e (HEAD -> master)
Author: Hardik <hardikl2@gmail.com>
Date:   Sun Sep 3 11:31:53 2023 +0000

    Done3
```



● Conclusion:

source code management on GitHub is a critical and highly effective practice for modern software development. GitHub provides a robust platform for collaboration, version control, and project management, making it an indispensable tool for individuals, teams, and organizations of all sizes.