

Version Control with GIT

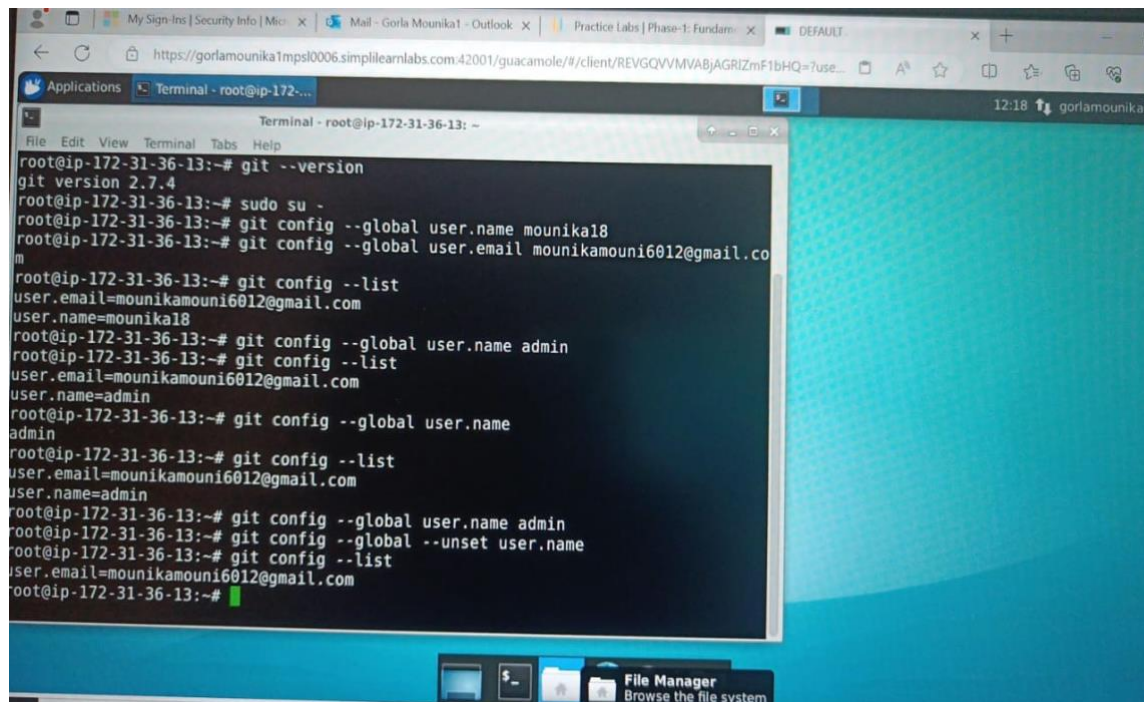
Scenario 1

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Check if we have git installed or not on lab

```
$ git config --global user.name <mouni18>
```

```
$ git config --global user.email <mounikamouni6012@gmail.com>
```

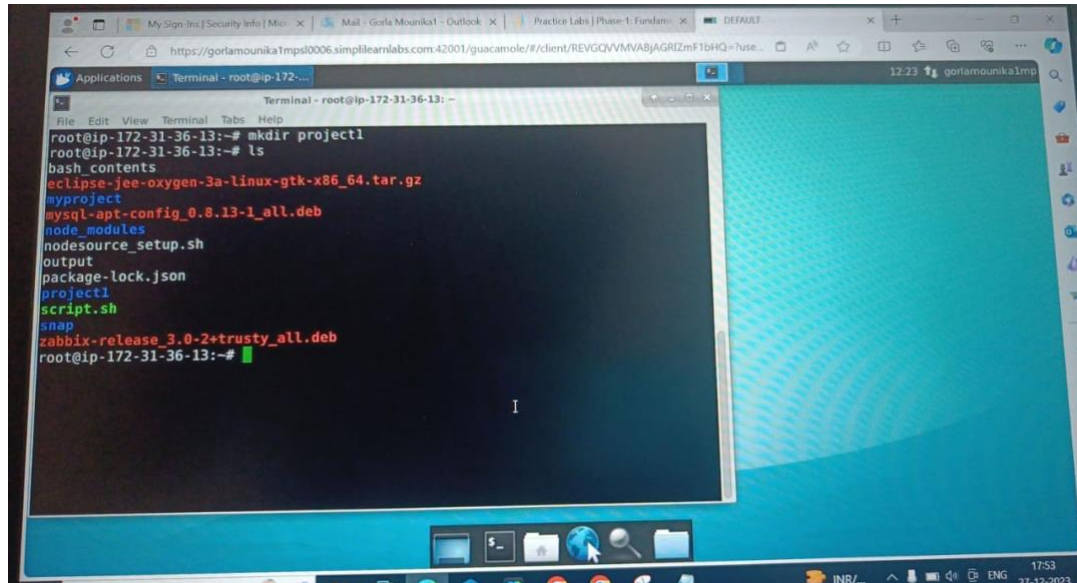


The screenshot shows a terminal window with the following commands and output:

```
root@ip-172-31-36-13:~# git --version
git version 2.7.4
root@ip-172-31-36-13:~# sudo su -
root@ip-172-31-36-13:~# git config --global user.name mounika18
root@ip-172-31-36-13:~# git config --global user.email mounikamouni6012@gmail.com
root@ip-172-31-36-13:~# git config --list
user.email=mounikamouni6012@gmail.com
user.name=mounika18
root@ip-172-31-36-13:~# git config --global user.name admin
root@ip-172-31-36-13:~# git config --list
user.email=mounikamouni6012@gmail.com
user.name=admin
root@ip-172-31-36-13:~# git config --global user.name
admin
root@ip-172-31-36-13:~# git config --list
user.email=mounikamouni6012@gmail.com
user.name=admin
root@ip-172-31-36-13:~# git config --global user.name admin
root@ip-172-31-36-13:~# git config --global --unset user.name
root@ip-172-31-36-13:~# git config --list
user.email=mounikamouni6012@gmail.com
root@ip-172-31-36-13:~#
```

Demo 2:

Create a working directory



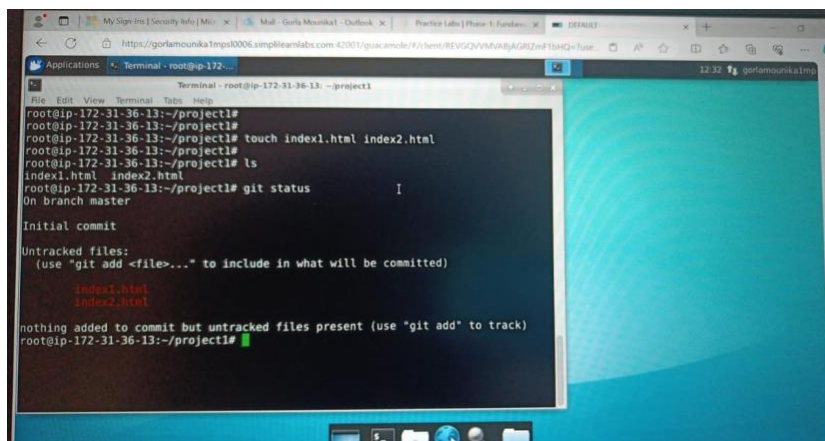
Demo 3:

Add New Files to Local Repository

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Create a file inside the directory

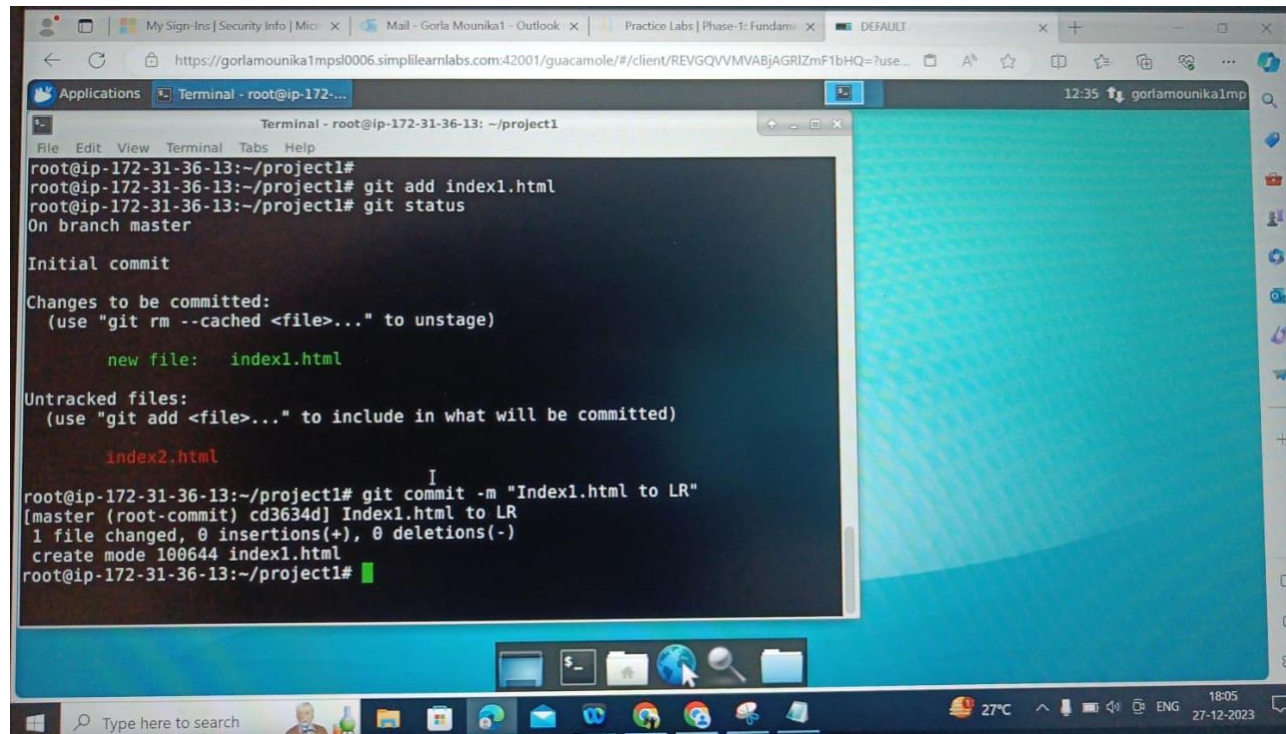
\$ touch index1.html index2.html



Demo 4: Modifications to be added to Local repo

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Take the files that are present in Local repo:



```
root@ip-172-31-36-13:~/project1# git add index1.html
root@ip-172-31-36-13:~/project1# git status
On branch master

Initial commit

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

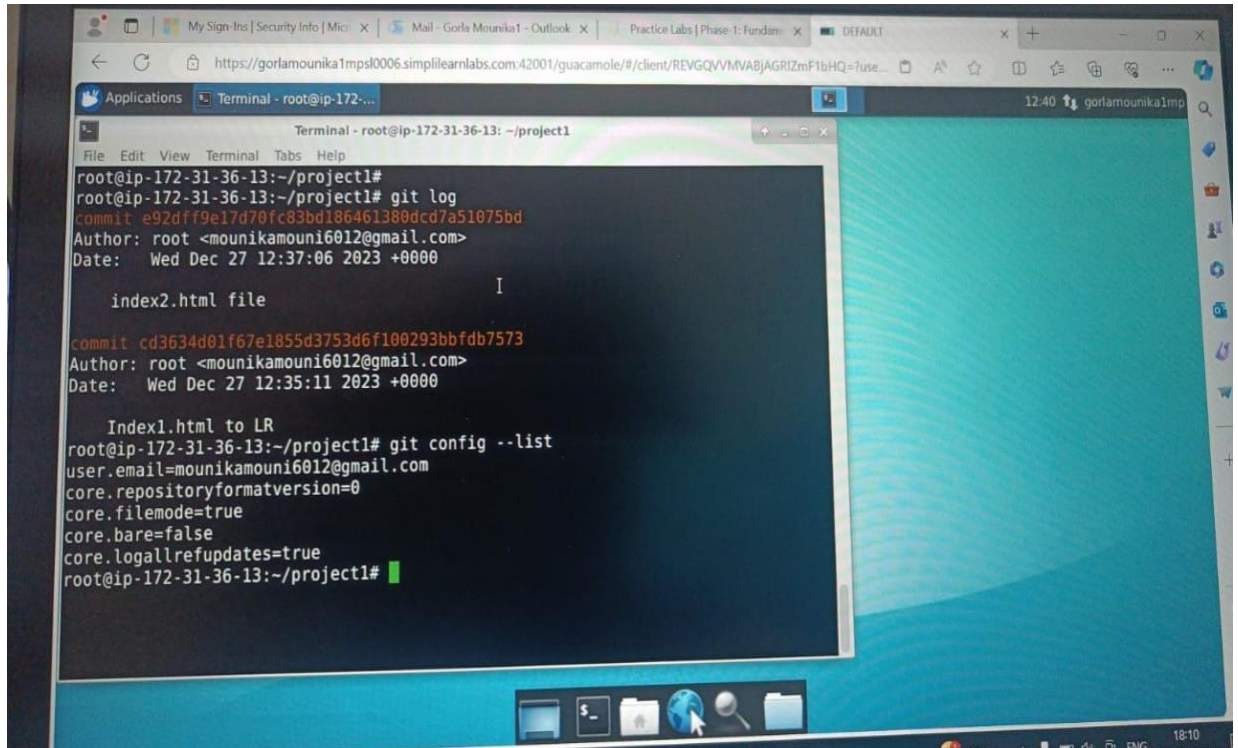
        new file:   index1.html

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

        index2.html

root@ip-172-31-36-13:~/project1# git commit -m "Index1.html to LR"
[master (root-commit) cd3634d] Index1.html to LR
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index1.html
root@ip-172-31-36-13:~/project1#
```

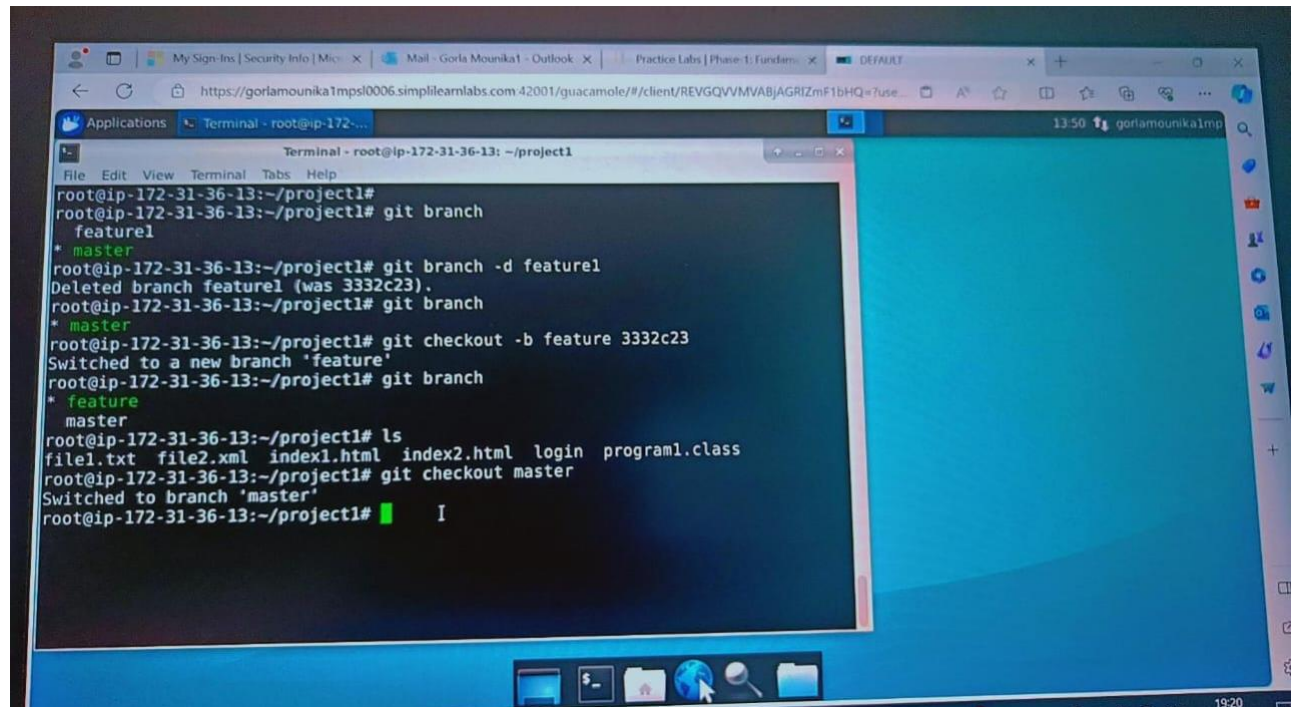
Demo 5 : .gitignore concept



The screenshot shows a terminal window titled "Terminal - root@ip-172-31-36-13: ~/project1". The terminal output is as follows:

```
root@ip-172-31-36-13:~/project1#  
root@ip-172-31-36-13:~/project1# git log  
commit e92dff9e17d70fc83bd186461380dcd7a51075bd  
Author: root <mounikamouni6012@gmail.com>  
Date: Wed Dec 27 12:37:06 2023 +0000  
  
    index2.html file  
  
commit cd3634d01f67e1855d3753d6f100293bbfdb7573  
Author: root <mounikamouni6012@gmail.com>  
Date: Wed Dec 27 12:35:11 2023 +0000  
  
    Index1.html to LR  
root@ip-172-31-36-13:~/project1# git config --list  
user.email=mounikamouni6012@gmail.com  
core.repositoryformatversion=0  
core.filemode=true  
core.bare=false  
core.logallrefupdates=true  
root@ip-172-31-36-13:~/project1#
```


Demo 6 : Branching & Merging

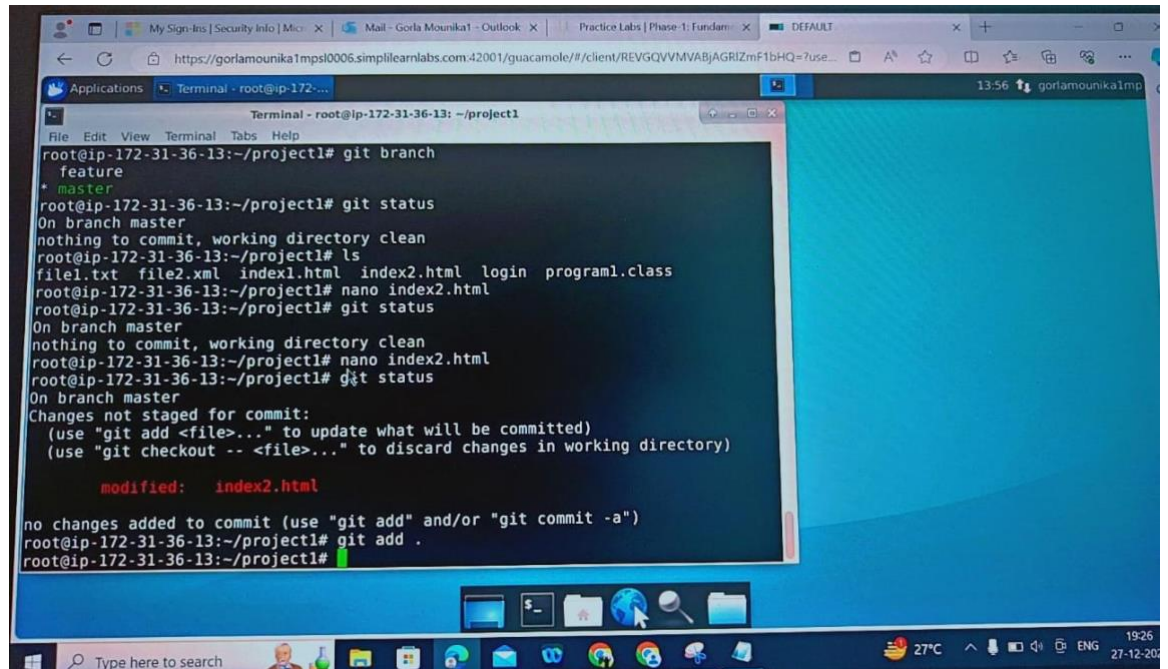


The screenshot shows a terminal window titled "Terminal - root@ip-172-31-36-13: ~/project1". The terminal output is as follows:

```
root@ip-172-31-36-13:~/project1#
root@ip-172-31-36-13:~/project1# git branch
* master
root@ip-172-31-36-13:~/project1# git branch -d feature1
Deleted branch feature1 (was 3332c23).
root@ip-172-31-36-13:~/project1# git branch
* master
root@ip-172-31-36-13:~/project1# git checkout -b feature 3332c23
Switched to a new branch 'feature'
root@ip-172-31-36-13:~/project1# git branch
* feature
  master
root@ip-172-31-36-13:~/project1# ls
file1.txt  file2.xml  index1.html  index2.html  login  program1.class
root@ip-172-31-36-13:~/project1# git checkout master
Switched to branch 'master'
root@ip-172-31-36-13:~/project1#
```

The terminal window is part of a desktop environment. The top of the screen shows a web browser with several tabs open, including "My Sign-In | Security Info | Microsoft", "Mail - Gorka Mounika - Outlook", and "Practice Labs | Phase 1: Fundamentals". The address bar shows a URL from "gorlamounika1mpsl0006.simplilearnlabs.com". The desktop background is blue with a white wave pattern. The taskbar at the bottom shows icons for the terminal, file manager, and other applications. The system clock in the bottom right corner shows "19:20".

DEMO 7 : Remote Repository



The screenshot shows a terminal window titled "Terminal - root@ip-172-31-36-13: ~/project1". The terminal output shows the following sequence of commands and their results:

```
root@ip-172-31-36-13:~/project1# git branch
* feature
* master
root@ip-172-31-36-13:~/project1# git status
On branch master
nothing to commit, working directory clean
root@ip-172-31-36-13:~/project1# ls
file1.txt file2.xml index1.html index2.html login program1.class
root@ip-172-31-36-13:~/project1# nano index2.html
root@ip-172-31-36-13:~/project1# git status
On branch master
nothing to commit, working directory clean
root@ip-172-31-36-13:~/project1# nano index2.html
root@ip-172-31-36-13:~/project1# git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   index2.html

no changes added to commit (use "git add" and/or "git commit -a")
root@ip-172-31-36-13:~/project1# git add .
root@ip-172-31-36-13:~/project1#
```

The terminal window is overlaid on a desktop environment. The desktop background is blue. The taskbar at the bottom shows various application icons, including a search bar, a file explorer, a web browser, and a terminal. The system tray on the right shows the temperature (27°C), a battery icon, and the time (19:26) and date (27-12-2023).