

Department of Information Technology

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Semester: V Student ID: 24204018

Class / Branch: TEIT/Div C

Subject: DevOps Lab

Date of Performance: 18/7/25

Date of Submission: 18/7/25

Name of Instructor: Prof. Sujata Oak

Experiment No. 02

Aim: To perform installation of Git and work on local and remote Git repositories.

STEP1: You need to setup Git on your local machine, as follows:

STEP2:To update all local package index for ubuntu:

```
[sudo] password for apst:

(sudo] password for apst:

(sol@yora:)/mone/apstig15: hravanism apt update

Ign:) https://pkg.jenkins.io/deblan-stable binary/ InRelease

Get:2 https://pkg.jenkins.io/deblan-stable binary/ Release.gog [833 8]

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Get:3 https://pkg.jenkins.io/deblan-stable binary/ Release.gog [833 8]

Fer:3 https://pkg.jenkins.io/deblan-stable binary/ Release.gog

The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 5BA31D57EF5975CA

Get:4 https://de.podie.com/linux/chrome/deb stable inRelease

The following signatures couldn't be conditions/chrome/deb stable inRelease

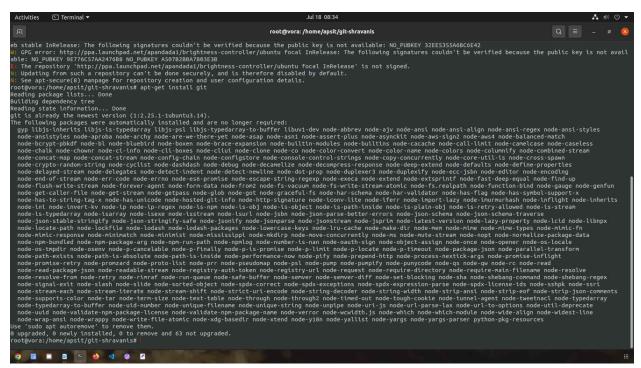
The following signature (onclinux/chrome/deb stable inRelease)

The following signature (onclinus/chrome/deb stable inRelease)

The following signature (onclinus/chrome/deb stable inRelease)

Hit:3 http://in.archive.ubuntu.com/ubuntu focal-secsion toller/ubuntu focal-secsion toller/
```

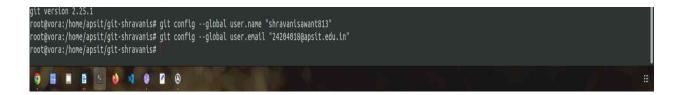
STEP3: Download & Install: #apt-get install git



STEP4: VERSION:



STEP5:USERNAME AND EMAIL:



STEP6:CONFIGURATION:

STEP7:INITIALISATION

```
user.ematt=z4zon01agapstc.euu.ti
root@vora:/home/apstt/gtt-shravants# git init
Initialized empty Git repository in /home/apsit/git-shravanis/.git/
root@vora:/home/apsit/git-shravanis#
```

STEP8: ALTR

```
root@vora:/home/apstt/git-shravanis# is -altr
total 20
drwxrwxr-x 3 apsit apsit 4096 Jul 18 08:48 .dt
drwxr-xr-x 7 root root 4096 Jul 18 08:48 .git
drwxr-xr-x 46 apsit apsit 12288 Jul 18 08:48 ..
root@vora:/home/apsit/git-shravanis#
```

STEP9: CLONE

```
urwxr-xr-x 40 apsit apsit 12288 Jul 18 08:48 ...
root@vora:/home/apsit/git-shravanis# git clone https://github.com/shravanisawant819/gitdemo18072025.git
Cloning into 'gitdemo18072025'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 895 bytes | 447.00 KiB/s, done.
root@vora:/home/apsit/git-shravanis#
```

```
root@vora:/home/apsit/git-shravanis# ls -ltr
total 4
drwxr-xr-x 3 root root 4096 Jul 18 08:50 gitdemo18072025
root@vora:/home/apsit/git-shravanis#
```

```
root@vora:/home/apsit/git-shravanis# cd gitdemo18072025
root@vora:/home/apsit/git-shravanis/gitdemo18072025# ls
README.md
root@vora:/home/apsit/git-shravanis/gitdemo18072025# cat README.md
# gitdemo18072025
setup of git experiment 18072025
root@vora:/home/apsit/git-shravanis/gitdemo18072025# |
```

STEP10: STATUS

```
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git add helloworld.py
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: helloworld.py

r Google Chrome e/apsit/git-shravanis/gitdemo18072025#
```

STEP11: COMMIT

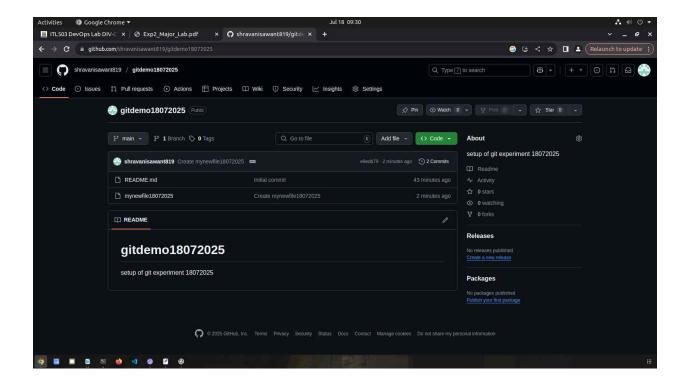
```
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git commit -m "first file added helloworld.py"
[main 7bf38fe] first file added helloworld.py
1 file changed, 3 insertions(+)
create mode 100644 helloworld.py
root@vora:/home/apsit/git-shravanis/gitdemo18072025#
```

STEP12: USERNAME PASSWORD

```
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git push origin main
Username for 'https://github.com': shravanisawant813
Password for 'https://shravanisawant813@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/shravanisawant819/gitdemo18072025.git/'
root@vora:/home/apsit/git-shravanis/gitdemo18072025#
```

STEP13: PULL AND PUSH

```
total 8
-rw-r--r-- 1 root root 51 Jul 18 08:50 README.md
-rw-r--r-- 1 root root 55 Jul 18 08:58 helloworld.py
root@vora:/home/apsit/git-shravanis/gitdemo18072025# |
```



STEP 14:GIT LOG

```
CII: command not found
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git log
commit 7bf38fe74f3a597388d3e4af620f378b6dfc90fd (HEAD -> main)
Author: shravanisawant813 <24204018@apsit.edu.in>
Date: Fri Jul 18 09:03:53 2025 +0530

first file added helloworld.py

commit 34143641d3b2afd5bde6734e9c8293eff01d194a (ortgin/main, ortgin/HEAD)
Author: shravanisawant819 <24204018@apsit.edu.in>
Date: Fri Jul 18 08:47:03 2025 +0530

Initial commit
root@vora:/home/apsit/git-shravanis/gitdemo18072025#
```

STEP15: git show

```
root@vora:/home/apsit/git-shravanis/gitdemo18072025# git show 7bf38fe74f3a597388d3e4af620f378b6dfc90fd
commit 7bf38fe74f3a597388d3e4af620f378b6dfc90fd (HEAD -> main)
Author: shravanisawant813 <242e4018@apsit.edu.in>
Date: Fri Jul 18 09:03:53 2025 +0530

first file added helloworld.py

diff --git a/helloworld.py b/helloworld.py
new file mode 100644
index 0000000.30679ca
--- /dev/nul
+++ b/helloworld.py
(0 -0,0 +1,3 00)
+num = 5
+print("Factorial of",num,"is",
+factorial(num))
root@vora:/home/apsit/git-shravanis/gitdemo18072025#
```

```
6505683 (HEAD -> main) Merge branch 'main' of https://glthub.com/s
tdemo11072025 into main
c07059b (origin/main, origin/MEAD) Create mynewfile
c62d707 Revert "Initial commit"
cc225cc first file added
73e6d61 Initial commit
```

```
Date: Thu Jul 10 17:36:17 2025 +0000

first file added

diff --git a/factorial.py b/factorial.py
new file mode 100644
index 0000000.87338e7
--- /dev/null
+++ b/factorial.py

00 00 01 11 00

**Mun = int(input("inter a number: "))
**Factorial = 1

**If num = 0:
** print("Factorial does not exist for negative number:")
**elif num == 0:
** print("The factorial of b is :")
**elif num == 0:
** print("The factorial of b is :")
**elif num == 0:
** print("The factorial of b is :")
**elif num == 0:
** print("The factorial of b is :")
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**print("The factorial of b is :")
**elif num == 0:
**print("The fact
```

CONCLUSION:

Installing Git provides a powerful tool for version control and collaborative software development. By working on local repositories, users can efficiently track changes and manage project history. Connecting to remote repositories enables seamless collaboration with others, facilitating code sharing and integration. Mastering Git commands and workflows enhances productivity and project organization. Overall, Git is essential for modern development practices, ensuring robust code management and teamwork.