



PARSHVANATH CHARITABLE  
TRUST'S

# A. P. SHAH INSTITUTE OF TECHNOLOGY



## Department of Information Technology

Academic Year: 2022-23

Semester: V

Class / Branch: IT

Subject: DevOps Lab

Name of Instructor: Nahid Shaikh

Name of Student: Prathamesh Lambate

Student ID: 20104064

### Experiment No. 4

**Aim:** To understand and perform Version Control System / Source Code Management, install git and create a GitHub account.

```
apsit@apsit-HP-280-G2-MT-Legacy:~$ mkdir prathamesh  
apsit@apsit-HP-280-G2-MT-Legacy:~$ cd ~/prathamesh/
```

Git init:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git init  
Initialized empty Git repository in /home/apsit/prathamesh/.git/
```

Check user:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git config --global --list  
user.name=LambatePrathamesh  
user.email=20104064.prathameshlambate@gmail.com
```

Create a file:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ touch try  
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ ls  
try
```

Add text in file:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ cat >try  
This is DevOps Lab
```



PARSHVANATH CHARITABLE  
TRUST'S

# A. P. SHAH INSTITUTE OF TECHNOLOGY



Check Status:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git status
On branch master

No commits yet

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

        try

nothing added to commit but untracked files present (use "git add" to track
)
```

Git add:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git add .
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git status
On branch master

No commits yet

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

        new file:   try
```

Git commit:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git commit -m "My first file
version"
[master (root-commit) b833249] My first file version
 1 file changed, 2 insertions(+)
 create mode 100644 try

apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git status
On branch master
nothing to commit, working tree clean
```



PARSHVANATH CHARITABLE  
TRUST'S

# A. P. SHAH INSTITUTE OF TECHNOLOGY



Git Log:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git log
commit b833249b898013e78f8b8b7d06c9cfcac38712fa (HEAD -> master)
Author: LambatePrathamesh <20104064.prathameshlambate@gmail.com>
Date:   Fri Sep 23 16:55:22 2022 +0530

    My first file version
```

Git Show:

```
apsit@apsit-HP-280-G2-MT-Legacy:~/prathamesh$ git show b833249b8
commit b833249b898013e78f8b8b7d06c9cfcac38712fa (HEAD -> master)
Author: LambatePrathamesh <20104064.prathameshlambate@gmail.com>
Date:   Fri Sep 23 16:55:22 2022 +0530

    My first file version

diff --git a/try b/try
new file mode 100644
index 0000000..866c593
--- /dev/null
+++ b/try
@@ -0,0 +1,2 @@
+This is DevOps Lab
```

**Conclusion:**

**In this experiment students have understood how to create a Git repository. How to use version control to collaborate and manage application source code.**