

# Parshvanath Charitable Trust's

# A. P. SHAH INSTITUTE OF TECHNOLOGY

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(Religious Jain Minority)

# **Department of Information Technology**

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Class / Branch: IT Subject: DevOps Lab

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## Experiment No. 3

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

Creating a new file soham.txt and adding some content to it

```
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# nano soham.txt
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# cat soham.txt
hello this is test file
adding new line this time
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git status
On branch master
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
 (use "git restore <file>..." to discard changes in working directory)
Untracked files:
 (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git diff soham.txt
diff --git a/soham.txt b/soham.txt
index d237dff..2f48de9 100644
--- a/soham.txt
+++ b/soham.txt
hello this is test file
-adding new line this time
```

# Adding the file back to the git

## Commiting on the current git add and checking the id:

```
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git log --oneline
        (HEAD -> master
                                        first commit
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git revert df195a7
error: your local changes would be overwritten by revert.
                     nges or stash them to pro
fatal: revert failed
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git show commit id
fatal: ambiguous argument 'commit': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]
root@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC:/home/apsit/Documents/Soham/git-demo-project2# git show
Author: Soham01011 <crafterking@tutanota.com>
Date: Tue Aug 1 14:46:10 2023 +0530
    first commit
diff --git a/soham.txt b/soham.txt
new file mode 100644
index 0000000..d237dff
--- /dev/null
+++ b/soham.txt
+hello this is test file
```

## Using the commit id to revert the file:

#### **Conclusion:**

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