# Lab-01

## 1. Creating a repo

```
PS E:\A IIIT DWD\semester 6\devsecops_la> git init
Initialized empty Git repository in E:/A IIIT DWD/semester 6/devsecops_la/.git/
PS E:\A IIIT DWD\semester 6\devsecops_la> git add .
PS E:\A IIIT DWD\semester 6\devsecops_la> git status
On branch master

No commits yet

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

PS E:\A IIIT DWD\semester 6\devsecops_la> git commit -m "first commit"
[master (root-commit) 547d6aa] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 readme.md
```

## 2. Remote repositories

```
PS E:\A IIIT DWD\semester 6\devsecops_la> git remote add origin https://github.co
m/BugBuster18/DevOpsLab.git
```

```
PS E:\A IIIT DWD\semester 6\devsecops_la> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 215 bytes | 215.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/BugBuster18/DevOpsLab.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```
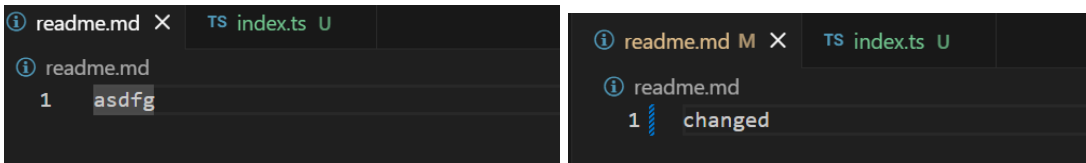
```
PS E:\A IIIT DWD\semester 6\devsecops_la> git pull
Updating 547d6aa..263c8cf
Fast-forward
 readme.md | 1 +
 1 file changed, 1 insertion(+)
```

## 3. Tracking files

```
PS E:\A IIIT DWD\semester 6\devsecops_la> git add index.ts
PS E:\A IIIT DWD\semester 6\devsecops_la> git commit -m "add index.ts"
[main 7a9aa42] add index.ts
 1 file changed, 9 insertions(+)
 create mode 100644 index.ts
PS E:\A IIIT DWD\semester 6\devsecops_la> git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

## 4. Undoing Changes

```
readme.md X        TS index.ts U

readme.md
  1    asdfg
```

```
readme.md M X        TS index.ts U

readme.md
  1    changed
```

```
PS E:\A IIIT DWD\semester 6\devsecops_la> git checkout -- index.ts
PS E:\A IIIT DWD\semester 6\devsecops_la> git log
commit 7a9aa4293894ad1564e09aa7efb5316d0af2ef66 (HEAD -> main)
Author: Venkatesh <dhangarvenkatesh52@gmail.com>
Date:   Thu Jan 8 11:46:37 2026 +0530

    add index.ts

commit 263c8cf8542e2dcb7b084f8f56a15e4f73e6a8d8 (origin/main)
Author: BugBuster18 <dhangarvenkatesh52@gmail.com>
Date:   Thu Jan 8 11:40:44 2026 +0530

    Add initial content to readme.md

commit 547d6aa6c9f63d8b05d2cdf7782088ff800ba14d
Author: Venkatesh <dhangarvenkatesh52@gmail.com>
Date:   Thu Jan 8 11:31:00 2026 +0530

    first commit
PS E:\A IIIT DWD\semester 6\devsecops_la> git revert 263c8cf8542e2dcb7b084f8f56a15e4f73e6a8d8
[main eb21abb] Revert "Add initial content to readme.md"
 1 file changed, 1 deletion(-)
```

## 5. Branching and Merging

```
      first commit
PS E:\A IIIT DWD\semester 6\devsecops_la> git branch feature
PS E:\A IIIT DWD\semester 6\devsecops_la> git checkout feature
Switched to branch 'feature'

         stash
PS E:\A IIIT DWD\semester 6\devsecops_la> git status
On branch feature
nothing to commit, working tree clean
PS E:\A IIIT DWD\semester 6\devsecops_la> git checkout main
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)
PS E:\A IIIT DWD\semester 6\devsecops_la> git merge feature
Updating eb21abb..4b16e1f
Fast-forward
 index.ts  | 2 +-
 readme.md | 1 +
 2 files changed, 2 insertions(+), 1 deletion(-)
```