

1. git init

```
C:\Users\pronn\OneDrive\Desktop\SEPM Lab>git init
Initialized empty Git repository in C:/Users/pronn/OneDrive/Desktop/SEPM Lab/.git/
```

2. git config user.name
3. git config email

```
C:\Users\pronn\OneDrive\Desktop\SEPM Lab>git config user.name subrato3
C:\Users\pronn\OneDrive\Desktop\SEPM Lab>git config user.email subrato3tapaswi@gmail.com
```

4. git status

```
C:\Users\pronn\OneDrive\Desktop\SEPM Lab>git status
On branch master

No commits yet

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

5. git clone- creates a linked copy of an existing repo on the local machine
git fork- creates an independent copy of an existing repo remotely

```
C:\Users\pronn\OneDrive\Desktop\SEPM Lab>git clone https://github.com/subrato3/sepm.git
Cloning into 'sepm'...
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
Receiving objects: 100% (3/3), done.
```

6. git status

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git status
On branch main
Your branch is up to date with 'origin/main'.

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)
    modified:   index.html

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

no changes added to commit (use "git add" and/or "git commit -a")
```

7. git add
8. git commit

```

● PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git add .
● PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git commit -m "added program file"
[main 4880be7] added program file
 2 files changed, 114 insertions(+), 13 deletions(-)
  rewrite index.html (79%)
○ create mode 100644 program.html

```

9. git diff

```

modified: index.html
diff --git a/program.html b/program.html
index f013ed5..629b999 100644
--- a/program.html
+++ b/program.html
@@ -40,23 +40,7 @@
         </div>
     </div>
-
-     <div class="col-lg-4 col-md-6 col-sm-6">
-         <div class="single-cases mb-40">
diff --git a/program.html b/program.html
index f013ed5..629b999 100644
--- a/program.html
+++ b/program.html
@@ -40,23 +40,7 @@
         </div>
     </div>
-
-     <div class="col-lg-4 col-md-6 col-sm-6">
-         <div class="single-cases mb-40">
-             <div class="cases-img">

```

10. git push

```

● PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git push --set-upstream origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 1.29 KiB | 659.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/subrato3/sepm.git
 64af8b9..4880be7 main -> main
branch 'main' set up to track 'origin/main'.

```

```

● PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git push origin main
Everything up-to-date

```

11. git pull

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 782 bytes | 65.00 KiB/s, done.
From https://github.com/subrato3/sepm
   4880be7..d170a4c  main       -> origin/main
Updating 4880be7..d170a4c
Fast-forward
 index.html | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
```

12. git branch

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git branch
* main
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git branch subrato
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git branch
* main
  subrato
```

13. git checkout

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git checkout subrato
Switched to branch 'subrato'
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git branch
  main
* subrato
```

14. git merge

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git merge main
Already up to date.
```

15. git log

```
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git log
commit d170a4c516ab926517c33a95507c0f02f5b2d25a (HEAD -> subrato, origin/main, origin/HEAD, main)
Author: Subrato Tapaswi <85778323+subrato3@users.noreply.github.com>
Date: Mon May 1 18:47:31 2023 +0530

    Update index.html

commit 4880be77eb20b057616fc175fcc3714f0f1b0966
Author: Argentina <subrato3tapaswi@gmail.com>
Date: Mon May 1 18:31:54 2023 +0530

    added program file

commit 64af8b9ba1d006f318e20bdf95ef85ab59589cce
Author: Subrato Tapaswi <85778323+subrato3@users.noreply.github.com>
Date: Sun Apr 2 13:44:26 2023 +0530

    Create index.html
```

16. git show

```

PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git show
commit d170a4c516ab926517c33a95507c0f02f5b2d25a (HEAD -> subrato, origin/main, origin/HEAD, main)
Author: Subrato Tapaswi <85778323+subrato3@users.noreply.github.com>
Date: Mon May 1 18:47:31 2023 +0530

    Update index.html

diff --git a/index.html b/index.html
index 75635a7..44b333c 100644
--- a/index.html
+++ b/index.html
@@ -22,6 +22,7 @@
                                     <body>
                                     Hello World!
+                                     This is for the Software Engineering and Project Management Lab 3
+                                     </body>
</header>
- </html>
\ No newline at end of file
+ </html>

```

17. git log --stat -M

```

PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git log --stat -M
commit d170a4c516ab926517c33a95507c0f02f5b2d25a (HEAD -> subrato, origin/main, origin/HEAD, main)
Author: Subrato Tapaswi <85778323+subrato3@users.noreply.github.com>
Date: Mon May 1 18:47:31 2023 +0530

    Update index.html

index.html | 3 +-
1 file changed, 2 insertions(+), 1 deletion(-)

commit 4880be77eb20b057616fc175fcc3714f0f1b0966
Author: Argentina <subrato3tapaswi@gmail.com>
Date: Mon May 1 18:31:54 2023 +0530

    added program file

index.html | 32 ++++++-----
program.html | 87 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
2 files changed, 110 insertions(+), 9 deletions(-)

commit 64af8b9ba1d006f318e20bdf95ef85ab59589cce
Author: Subrato Tapaswi <85778323+subrato3@users.noreply.github.com>
Date: Sun Apr 2 13:44:26 2023 +0530

    Create index.html

index.html | 13 ++++++
1 file changed, 13 insertions(+)

```

18. git reset

19. git clean

```

PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git reset
PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git clean
fatal: clean.requireForce defaults to true and neither -i, -n, nor -f given; refusing to clean

```

20. git stash

```

PS C:\Users\pronn\OneDrive\Desktop\SEPM Lab\sepm> git stash
Saved working directory and index state WIP on subrato: d170a4c Update index.html

```