

Assignment 6

Assignment 1

Initialize a new Git repository in a directory of your choice. Add a simple text file to the repository and make the first commit.

#opening terminal and creating directory called MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment$ mkdir MyRepo
```

#changing directory to MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment$ cd MyRepo/
```

#Using git init initialize repository

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git init
```

hint: Using 'master' as the name for the initial branch. This default branch name

hint: is subject to change. To configure the initial branch name to use in all

hint: of your new repositories, which will suppress this warning, call:

hint:

hint: `git config --global init.defaultBranch <name>`

hint:

hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and

hint: 'development'. The just-created branch can be renamed via this command:

hint:

hint: `git branch -m <name>`

Initialized empty Git repository in

```
/home/sayan-kumar-muhuri/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo/.git/
```

#Adding a README.md file in MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ echo "This my new Repo called MyRepo" > README.md
```

#Using git add . adding all the files to MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git add .
```

#Looking at the status of current main branch

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git status
```

On branch master

No commits yet

Changes to be committed:

```
(use "git rm --cached <file>..." to unstage)
```

```
new file: README.md
```

#Using git commit -m Adding first commit to main branch

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ git commit -m "Adding README.md on main branch"
```

```
[master (root-commit) cd8d2d6] Adding README.md on main branch
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 README.md
```

#Using git log looking at the changes in the current branch

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ git log
```

```
commit cd8d2d651c5f75e281410cc8a9795c87b4f03916 (HEAD -> master)
```

```
Author: sayankae <coolronti@gmail.com>
```

```
Date: Fri May 17 02:05:31 2024 +0530
```

```
Adding README.md on main branch
```

Assignment 2

Create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

#Using git branch making a branch called feature

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ git branch feature
```

#Using git branch printing all branches on the MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ git branch
```

```
feature
```

```
* master
```

#Using git checkout changing the branch to feature

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ git checkout feature
```

```
Switched to branch 'feature'
```

#Adding newFeature.txt to MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day
```

```
_Assignment/MyRepo$ echo "I am adding some changes to feature branch." > newFeature.txt
```

#Using git add . adding changes to MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git add .
```

#Using git status to check the status of the current branch

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git status
```

On branch feature

Changes to be committed:

(use "git restore --staged <file>..." to unstage)

new file: newFeature.txt

#Using git commit -m Adding commit to feature branch

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git commit -m "Added a newFeature.txt to feature branch"
```

```
[feature d25867d] Added a newFeature.txt to feature branch
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 newFeature.txt
```

#Using git log looking at the changes

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git log
```

```
commit d25867d833826468809d11f4317a526c6a32fca8 (HEAD -> feature)
```

```
Author: sayankae <coolronti@gmail.com>
```

```
Date: Fri May 17 02:15:51 2024 +0530
```

```
Added a newFeature.txt to feature branch
```

```
commit cd8d2d651c5f75e281410cc8a9795c87b4f03916 (master)
```

```
Author: sayankae <coolronti@gmail.com>
```

```
Date: Fri May 17 02:05:31 2024 +0530
```

```
Adding README.md on main branch
```

Assignment 3

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

#Using git branch to create a branch hotfix

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git branch hotfix
```

#Using git branch to see all the branch in MyRepo

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git branch
```

```
* feature
```

```
hotfix
```

```
master
```

```
#Using git checkout to change the branch to hotfix
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git checkout hotfix
```

```
Switched to branch 'hotfix'
```

```
#Making changes in newFeature.txt using vscode
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ code newFeature.txt
```

```
#Using git add . add all the changes in MyRepo
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git add .
```

```
#Using git commit -m adding commit to hotfix branch
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git commit -m "Adding some changes to newFeature.txt"
```

```
[hotfix af1247a] Adding some changes to newFeature.txt
```

```
1 file changed, 1 insertion(+), 1 deletion(-)
```

```
#Using git checkout going back to master branch
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git checkout master
```

```
Switched to branch 'master'
```

```
#Using git merge merging the hotfix branch with the master branch
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git merge hotfix
```

```
Updating cd8d2d6..af1247a
```

```
Fast-forward
```

```
newFeature.txt | 1 +
```

```
1 file changed, 1 insertion(+)
```

```
create mode 100644 newFeature.txt
```

```
#Using git log printing the changes made in MyRepo
```

```
sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day_Assignment/MyRepo$ git log
```

```
commit af1247a26a5d2a613cba7e8dc4fd8340f481e04c (HEAD -> master, hotfix)
```

```
Author: sayankae <coolronti@gmail.com>
```

```
Date: Fri May 17 02:25:46 2024 +0530
```

```
Adding some changes to newFeature.txt
```

```
commit d25867d833826468809d11f4317a526c6a32fca8 (feature)
```

```
Author: sayankae <coolronti@gmail.com>
```

```
Date: Fri May 17 02:15:51 2024 +0530
```

Added a newFeature.txt to feature branch

commit cd8d2d651c5f75e281410cc8a9795c87b4f03916

Author: sayankae <coolronti@gmail.com>

Date: Fri May 17 02:05:31 2024 +0530

Adding README.md on main branch

#Looking at newFeature.txt to check if the changes are there

sayan-kumar-muhuri@sayan-kumar-muhuri-VirtualBox:~/Desktop/asCmd/Assignements/6_Day

_Assignment/MyRepo\$ cat newFeature.txt

I am adding this line from hotfix branch.