



COGNIZANCE 2022

Task-1



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Git & GitHub Basics

Creating a git repository online and cloning it into the local machine:

```
D:\Codes\Cognizance2022>git clone https://github.com/Sayan-sam/Cognizance.git
Cloning into 'Cognizance'...
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.

D:\Codes\Cognizance2022>cd Cognizance

D:\Codes\Cognizance2022\Cognizance>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

D:\Codes\Cognizance2022\Cognizance>mkdir Task-1

D:\Codes\Cognizance2022\Cognizance>cd Task-1

D:\Codes\Cognizance2022\Cognizance\Task-1>cat > hello.py
print "This is the first program of the repository!"
```

Performing git operations

```
D:\Codes\Cognizance2022\Cognizance>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Task-1/

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

D:\Codes\Cognizance2022\Cognizance>git add .
warning: LF will be replaced by CRLF in Task-1/hello.py.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in Task-1/hello.py~.
The file will have its original line endings in your working directory

D:\Codes\Cognizance2022\Cognizance>git commit -m "First commit"
[main 651772c] First commit
 3 files changed, 2 insertions(+)
 create mode 100644 Task-1/.hello.py.un~
 create mode 100644 Task-1/hello.py
 create mode 100644 Task-1/hello.py~

D:\Codes\Cognizance2022\Cognizance>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
```

```
D:\Codes\Cognizance2022\Cognizance>git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.54 KiB | 790.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sayan-sam/Cognizance.git
 1886dec..651772c  main → main

D:\Codes\Cognizance2022\Cognizance>git checkout -b branch1
Switched to a new branch 'branch1'

D:\Codes\Cognizance2022\Cognizance>cat > fil
This file is in another branch called branch1

D:\Codes\Cognizance2022\Cognizance>git status
On branch branch1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    fil

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

```
D:\Codes\Cognizance2022\Cognizance>git add .
warning: LF will be replaced by CRLF in fil.
The file will have its original line endings in your working directory

D:\Codes\Cognizance2022\Cognizance>git commit -m "New Branch commit"
[branch1 773c46b] New Branch commit
 1 file changed, 1 insertion(+)
 create mode 100644 fil

D:\Codes\Cognizance2022\Cognizance>git status
On branch branch1
nothing to commit, working tree clean
```

```
D:\Codes\Cognizance2022\Cognizance>git push --set-upstream origin branch1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 355 bytes | 355.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'branch1' on GitHub by visiting:
remote:   https://github.com/Sayan-sam/Cognizance/pull/new/branch1
remote:
To https://github.com/Sayan-sam/Cognizance.git
 * [new branch]      branch1 → branch1
Branch 'branch1' set up to track remote branch 'branch1' from 'origin'.

D:\Codes\Cognizance2022\Cognizance>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

D:\Codes\Cognizance2022\Cognizance>git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

D:\Codes\Cognizance2022\Cognizance>ls
README.md  Task-1
```



```

D:\Codes\Cognizance2022\Cognizance>git merge branch1
Updating 651772c..773c46b
Fast-forward
 fil | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 fil

D:\Codes\Cognizance2022\Cognizance>ls
README.md Task-1 fil

D:\Codes\Cognizance2022\Cognizance>cat fil
This file is in another branch called branch1

D:\Codes\Cognizance2022\Cognizance>git push
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sayan-sam/Cognizance.git
 651772c..773c46b  main -> main

```

```

D:\Codes\Cognizance2022\Cognizance>git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttppath=true
file:C:/Users/Sayan Banerjee/.gitconfig user.name=Sayan-sam
file:C:/Users/Sayan Banerjee/.gitconfig user.email=sayanbanerjee10012010@gmail.com
file:.git/config core.repositoryformatversion=0
file:.git/config core.filemode=false
file:.git/config core.bare=false
file:.git/config core.logallrefupdates=true
file:.git/config core.symlinks=false
file:.git/config core.ignorecase=true
file:.git/config remote.origin.url=https://github.com/Sayan-sam/Cognizance.git
file:.git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config branch.main.remote=origin
file:.git/config branch.main.merge=refs/heads/main
file:.git/config branch.branch1.remote=origin
file:.git/config branch.branch1.merge=refs/heads/branch1

D:\Codes\Cognizance2022\Cognizance>

```

```

D:\Codes\Cognizance2022\Cognizance>ls
README.md Task-1 fil

D:\Codes\Cognizance2022\Cognizance>mv fil Task-1/fil

D:\Codes\Cognizance2022\Cognizance>git add . | git commit -m "Changed the location of file" | git push
Everything up-to-date

D:\Codes\Cognizance2022\Cognizance>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

D:\Codes\Cognizance2022\Cognizance>git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 418 bytes | 418.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sayan-sam/Cognizance.git
 773c46b..2b5b567  main -> main

```

Conclusion: After these operations, we will have a repository on [GitHub](https://github.com/Sayan-sam/Cognizance.git) where it will contain two branches, main and branch1. They will have the same files as they have been merged.