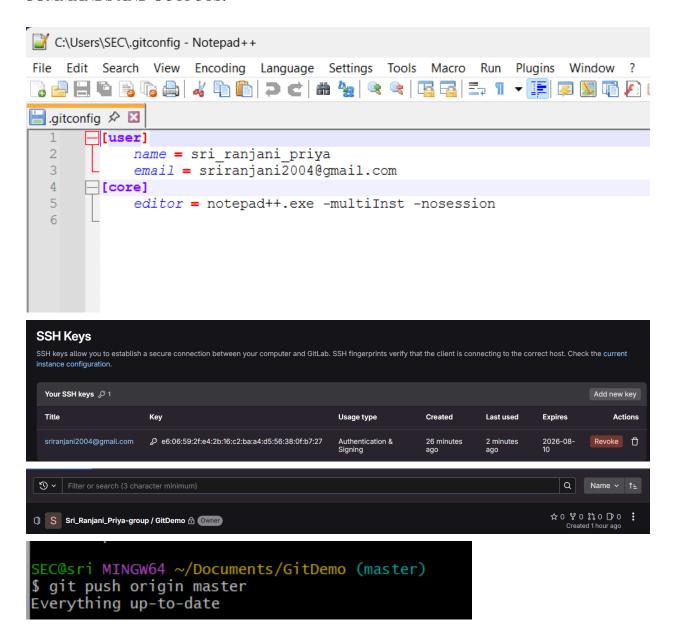
DotNet-FSE Mandatory Hands-On

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EXERCISE 1:

In this hands-on lab, you will learn how to- Setup your machine with Git Configuration, Integrate notepad++.exe to Git and make it a default editor, Add a file to source code repository

COMMANDS AND OUTPUTS:



```
✓ You pushed to master that at <u>Sri_Ranjani_Priya-group / GitDemo</u> 2 minutes ago
Create merge request
```

EXERCISE 2:

Create a ".log" file and a log folder in the working directory of Git. Update the .gitignore file in such a way that on committing, these files (.log extensions and log folders) are ignored. Verify if the git status reflects the same about working directory, local repository and git repository.

COMMANDS AND OUTPUTS:

```
SEC@sri MINGW64 ~ (master)

§ git init
Reinitialized existing Git repository in C:/Users/SEC/.git/

SEC@sri MINGW64 ~ (master)

§ echo "This is a log file" > sample.log

SEC@sri MINGW64 ~ (master)

§ mkdir log

SEC@sri MINGW64 ~ (master)

§ echo "Log file content" > log/logfile1.txt

SEC@sri MINGW64 ~ (master)

§ notepad++ .gitignore

SEC@sri MINGW64 ~/Documents/GitDemo (main)

§ git status

On branch main

nothing to commit, working tree clean
```

EXERCISE 3:

Construct a branch, do some changes in the branch, and merge it with master (or trunk)

COMMANDS AND OUTPUTS:

```
ca /c/users/sec/bocuments/Gitbemo
 C@sri MINGW64 ~/Documents/GitDemo (master)
 git branch GitNewBranchUp
 C@sri MINGW64 ~/Documents/GitDemo (master)
 git branch -a
 О́а
 GitNewBranch
 GitNewBranch1
 GitNewBranchUp
 main
 remotes/origin/main
remotes/origin/master
 EC@sri MINGW64 ~/Documents/GitDemo (master)
git checkout GitNewBranchUp
vitched to branch 'GitNewBranchUp'
 C@sri MINGW64 ~/Documents/GitDemo (GitNewBranchUp) echo "This is GitNewBranchUp File" > Gitup.txt
 EC@sri MINGW64 ~/Documents/GitDemo (GitNewBranchUp)
git add Gitup.txt
arning: in the working copy of 'Gitup.txt', LF will be replaced by CRLF the next
EC@sri MINGW64 ~/Documents/GitDemo (GitNewBranchUp)
git commit -m "Add GitUp.txt file to GitNewBranchUp"
GitNewBranchUp 5668cc0] Add GitUp.txt file to GitNewBranchUp
1 file changed, 1 insertion(+)
create mode 100644 Gitup.txt
 EC@sri MINGW64 ~/Documents/GitDemo (GitNewBranchUp)
 git status
n branch GitNewBranchUp
othing to commit, working tree clean
 C@sri MINGW64 ~/Documents/GitDemo (GitNewBranchUp)
git checkout master
 vitched to branch 'master'
git diff master GitNewBranchUp
iff —git a/Gitup.txt b/Gitup.txt
ew file mode 100644
ndex 0000000..74b2539
-- /dev/null
++ b/Gitup.txt
   -0,0+1@@
```

C:\Users\SEC\AppData\Local\Temp/git-blob-a15600/Gitup.txt

This is GitNewBranchUp File

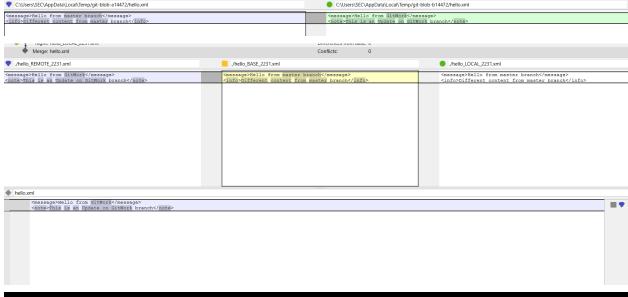
```
EC@sri MINGW64 ~/Documents/GitDemo (master)
  git difftool master GitNewBranchUp
This message is displayed because 'diff.tool' is not configured.
See 'git difftool --tool-help' or 'git help config' for more details.
'git difftool' will now attempt to use one of the following tools:
opendiff kdiff3 tkdiff xxdiff meld kompare gvimdiff diffuse diffmerge ecmerge
pare smerge emerge vimdiff nvimdiff
/iewing (1/1): 'Gitup.txt'
aunch 'p4merge' [Y/n]? y
SEC@sri MINGW64 ~/Documents/GitDemo (master)
 git merge GitNewBranchUp
Jpdating 65296a5..5668cc0
ast-forward
Gitup.txt | 1 +
1 file changed, 1 insertion(+)
create mode 100644 Gitup.txt
EC@sri MINGW64 ~/Documents/GitDemo (master)
 git log --oneline --graph --decorate
  5668cc0 (HEAD -> master, GitNewBranchUp) Add GitUp.txt file to GitNewBranchU
 65296a5 Add diff.txt file to GitNewBranch2
ad77c21 (GitNewBranch, Oa) Addes example.txt in GitNewBranch
ab1c01c (main) Update .gitignore to ignore .log files and log folder
1308277 Add .gitignore to ignore .log files and log folder
  4625405 (origin/master, origin/main) Initial commit
EC@sri MINGW64 ~/Documents/GitDemo (master)
 git branch -d GitNewBranchUp
Deleted branch GitNewBranchUp (was 5668cc0).
SEC@sri MINGW64 ~/Documents/GitDemo (master)
 git status
On branch master
nothing to commit, working tree clean
```

EXERCISE 4:

Implement conflict resolution when multiple users are updating the trunk (or master) in such a way that it results into a conflict with the branch's modification.

COMMANDS AND OUTPUTS:

```
MINGW64 ~/Documents/GitDemo (GitWork)
 git add hello.xml
varning: in the working copy of 'hello.xml', LF will be replaced by CRLF t
EC@sri MINGW64 ~/Documents/GitDemo (GitWork)
git commit -m"Add hello.xml and update content in GitWork"
GitWork 3c155b5] Add hello.xml and update content in GitWork
1 file changed, 2 insertions(+)
create mode 100644 hello.xml
EC@sri MINGW64 ~/Documents/GitDemo (GitWork)
git status
n branch GitWork
othing to commit, working tree clean
EC@sri MINGW64 ~/Documents/GitDemo (GitWork)
got checkout master
ash: got: command not found
EC@sri MINGW64 ~/Documents/GitDemo (GitWork)
git checkout master
witched to branch 'master'
EC@sri MINGW64 ~/Documents/GitDemo (master)
 echo "<message>Hello from master branch</message>" hello.xml
message>Hello from master branch</message> hello.xml
EC@sri MINGW64 ~/Documents/GitDemo (master)
 echo "<info>Different content from master branch</info>" >> hello.xml
EC@sri MINGW64 ~/Documents/GitDemo (master)
 echo "<message>Hello from master branch</message>" > hello.xml
EC@sri MINGW64 ~/Documents/GitDemo (master)
 echo "<info>Different content from master branch</info>" >> hello.xml
EC@sri MINGW64 ~/Documents/GitDemo (master)
 git add hello.xml
varning: in the working copy of 'hello.xml', LF will be replaced by CRLF t
EC@sri MINGW64 ~/Documents/GitDemo (master)
 git commit -m "Add hello.xml with different content on master branch"
master fb76030] Add hello.xml with different content on master branch
1 file changed, 2 insertions(+), 2 deletions(-)
EC@sri MINGW64 ~/Documents/GitDemo (master)
git diff master GitWork -- hello.xml
iff --git a/hello.xml b/hello.xml
ndex 912a26d..9b00892 100644
 - a/hello.xml
++ b/hello.xml
@ -1,2 +1,2 @@
<message>Hello from master branch</message>
<info>Different content from master branch</info>
```



```
FCGSri MINGW64 -/Documents/GitDemo (master)
in branch master
intracked files ..." to include in what will be committed)
(Use "bello MACKUP_157.xml hello_MACKUP_157.xml hello_MASK_2157.xml hello_MACKUP_2157.xml hello_MACK
```

EXERCISE 5:

Execute steps involving clean up and push back to remote Git.

COMMANDS AND OUTPUTS:

SEC@sri MINGW64 ~/Documents/MyGit (master) \$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

SEC@sri MINGW64 ~/Documents/MyGit (master) \$ git branch -a * master some-other-branch remotes/origin/HEAD -> origin/master remotes/origin/Git-T03-HOL_002 remotes/origin/master

SEC@sri MINGW64 ~/Documents/MyGit (master) \$ git checkout master Already on 'master'

SEC@sri MINGW64 ~/Documents/MyGit (master) \$ git pull origin master
From https://github.com/YourUsername/YourRepo
* branch master -> FETCH_HEAD
Already up to date.

SEC@sri MINGW64 ~/Documents/MyGit (master) \$ git checkout Git-T03-HOL_002 Switched to branch 'Git-T03-HOL_002'

SEC@sri MINGW64 ~/Documents/MyGit (Git-T03-HOL_002) \$ git push origin Git-T03-HOL_002 Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 8 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 304 bytes | 304.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/YourUsername/YourRepo.git

* [new branch] Git-T03-HOL 002 -> Git-T03-HOL 002

SEC@sri MINGW64 ~/Documents/MyGit (Git-T03-HOL_002) \$ git fetch origin

SEC@sri MINGW64 ~/Documents/MyGit (Git-T03-HOL_002) \$ git log origin/Git-T03-HOL_002 --oneline a1b2c3d (HEAD -> Git-T03-HOL_002, origin/Git-T03-HOL_002) Added new feature file