1. Git-HOL

1. Git-HOL.docx

OUTPUT:

```
pjvet@Jvethesh-PC1 MINGW64 ~
$ git --version
git version 2.49.0.windows.1

pjvet@Jvethesh-PC1 MINGW64 ~
$ git config --global user.name "Jvethesh"

pjvet@Jvethesh-PC1 MINGW64 ~
$ git config --global user.email "pjvetheshsai@gmail.com"

pjvet@Jvethesh-PC1 MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
gui.recentrepo=D:/bia_gui_project
user.email=pjvetheshsai@gmail.com
user.name=Jvethesh
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
core.editor=notepad++ -multiInst -nosession

pjvet@Jvethesh-PC1 MINGW64 ~
$ git config --global core.editor "notepad++ -multiInst -nosession"

pjvet@Jvethesh-PC1 MINGW64 ~
$ git config --global -e

pjvet@Jvethesh-PC1 MINGW64 ~
$ echo "Welcome to Git Hands-On" > welcome.txt

pjvet@Jvethesh-PC1 MINGW64 ~
$ cat welcome.txt
Welcome to Git Hands-On

pjvet@Jvethesh-PC1 MINGW64 ~
$ git status
fatal: not a git repository (or any of the parent directories): .git

pjvet@Jvethesh-PC1 MINGW64 ~
$ git add welcome.txt
fatal: not a git repository (or any of the parent directories): .git

pjvet@Jvethesh-PC1 MINGW64 ~
$ ^C

pjvet@Jvethesh-PC1 MINGW64 ~
$ mkdir GitDemo
```

```
pjvet@Jvethesh-PC1 MINGW64 ~
$ mkdir GitDemo

pjvet@Jvethesh-PC1 MINGW64 ~
$ cd GitDemo

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo
$ gitinit
bash: gitinit: command not found

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo
$ git init
Initialized empty Git repository in C:/Users/pjvet/GitDemo/.git/

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ echo "Welcome to Git Hands-On" > welcome.txt

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git status
On branch master

No commits yet

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

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

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git add welcome.txt
warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the n
ext time Git touches it

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git add welcome.txt

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git commit -m "Initial commit with welcome file"
[master (root-commit) 989b190] Initial commit with welcome file
 1 file changed, 1 insertion(+)
 create mode 100644 welcome.txt

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git remote add origin https://github.com/pjvetheshsai-group/pjvetheshsai-proje
ct

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push -u origin master
remote: Repository not found.
fatal: repository 'https://github.com/pjvetheshsai-group/pjvetheshsai-project/'
not found

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push -u origin master
remote: Repository not found.
fatal: repository 'https://github.com/pjvetheshsai-group/pjvetheshsai-project/'
not found

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ ^C
```

```
pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git remote -v
origin  https://github.com/pjvetheshsai-group/pjvetheshsai-project (fetch)
origin  https://github.com/pjvetheshsai-group/pjvetheshsai-project (push)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git remote remove origin

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ cd existing_repo
bash: cd: existing_repo: No such file or directory

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git remote add origin https://gitlab.com/pjvetheshsai-group/gitdemoo.git

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push -u origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 252 bytes | 84.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:    https://gitlab.com/pjvetheshsai-group/gitdemoo/-/merge_requests/new?me
rge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/pjvetheshsai-group/gitdemoo.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push -u origin master
branch 'master' set up to track 'origin/master'.
Everything up-to-date

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$
```
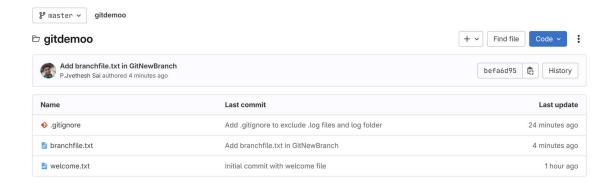
2. Git-HOL

2. Git-HOL.docx

Output:

```
pjvet@Jvethesh-PC1 MINGW64 ~
$ cd GitDemo

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ echo "This is a log file" > debug.log

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ mkdir log
mkdir: cannot create directory 'log': File exists

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ echo "Log entry" > log/error.log

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ notepad++ .gitignore

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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:   .gitignore

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

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ ^C

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git add .gitignore

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git commit -m "Add .gitignore to exclude .log files and log folder"
[master baa960d] Add .gitignore to exclude .log files and log folder
 1 file changed, 1 insertion(+)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 316 bytes | 158.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:   https://gitlab.com/pjvetheshsai-group/gitdemoo/-/merge_requests/new?me
rge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/pjvetheshsai-group/gitdemoo.git
   e87706b..baa960d  master -> master
```

	.gitignore		+1 −0	💬	View file @ baa960d1
	1	+			
1	2	*.log			
2	3	log/			

3. Git-HOL

3. Git-HOL.docx

Output:

```
pjvet@Jvethesh-PC1 MINGW64 ~
$ cd GitDemo

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ ^C

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch GitNewBranch

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch -a
  GitNewBranch
* master
  remotes/origin/master

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git checkout GitNewBranch
Switched to branch 'GitNewBranch'

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitNewBranch)
$ echo "this file is for the GitNewBranch" > branchfile.txt

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitNewBranch)
$ git add branchfile.txt
warning: in the working copy of 'branchfile.txt', LF will be replaced by CRLF th
e next time Git touches it

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitNewBranch)
$ git commit -m "Add branchfile.txt in GitNewBranch"
[GitNewBranch befa6d9] Add branchfile.txt in GitNewBranch
 1 file changed, 1 insertion(+), 1 deletion(-)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitNewBranch)
$ git status
On branch GitNewBranch
nothing to commit, working tree clean

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitNewBranch)
$ git checkout master
Switched to branch 'master'
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git diff master GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
index b840b29..74a2ea8 100644
--- a/branchfile.txt
+++ b/branchfile.txt
@@ -1 +1 @@
-This file is for the new branch
+this file is for the GitNewBranch
```
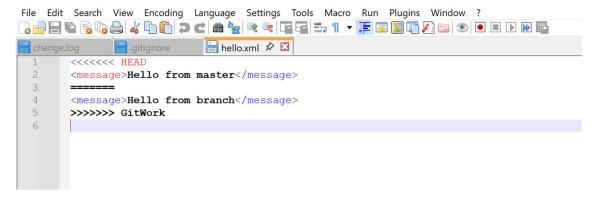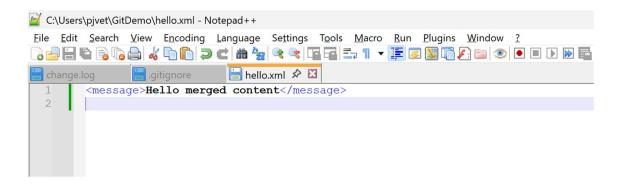
```
pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git diff master GitNewBranch
diff --git a/branchfile.txt b/branchfile.txt
index b840b29..74a2ea8 100644
--- a/branchfile.txt
+++ b/branchfile.txt
@@ -1 +1 @@
-This file is for the new branch
+this file is for the GitNewBranch

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git merge GitNewBranch
Updating 03c513d..befa6d9
Fast-forward
 branchfile.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* befa6d9 (HEAD -> master, GitNewBranch) Add branchfile.txt in GitNewBranch
* 03c513d Add branchfile.txt in GitNewBranch
* baa960d (origin/master) Add .gitignore to exclude .log files and log folder
* e87706b Add .gitignore to exclude .log files and log folder
* 989b190 Initial commit with welcome file

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch -d GitNewBranch
Deleted branch GitNewBranch (was befa6d9).

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push orign master
fatal: 'orign' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 16 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 697 bytes | 174.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:   https://gitlab.com/pjvetheshsai-group/gitdemoo/-/merge_requests/new?me
rge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/pjvetheshsai-group/gitdemoo.git
   baa960d..befa6d9  master -> master

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ |
```

```
master v     gitdemoo

🗀 gitdemoo                                              [+ v]  [Find file]  [Code v]  ⋮

    Add branchfile.txt in GitNewBranch                      befa6d95 📋   History
    P.Jvethesh Sai authored 4 minutes ago

Name                    Last commit                              Last update
◆ .gitignore            Add .gitignore to exclude .log files and log folder    24 minutes ago
📄 branchfile.txt        Add branchfile.txt in GitNewBranch                4 minutes ago
📄 welcome.txt           Initial commit with welcome file                 1 hour ago
```

4. Git-HOL

4. Git-HOL.docx

Output:


```
File  Edit  Search  View  Encoding  Language  Settings  Tools  Macro  Run  Plugins  Window  ?

change.log     .gitignore     hello.xml

1   <<<<<<< HEAD
2   <message>Hello from master</message>
3   =======
4   <message>Hello from branch</message>
5   >>>>>>> GitWork
6
```



```
C:\Users\pjvet\GitDemo\hello.xml - Notepad++

File  Edit  Search  View  Encoding  Language  Settings  Tools  Macro  Run  Plugins  Window  ?

change.log     .gitignore     hello.xml

1   <message>Hello merged content</message>
2
```

```
pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch GitWork

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git checkout GitWork
Switched to branch 'GitWork'

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitWork)
$ echo "<message>Hello from branch</message>" > hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitWork)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the nex
t time Git touches it

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitWork)
$ git commit -m
error: switch `m' requires a value

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitWork)
$ git commit -m "Add hello.xml in GitWork branch"
[GitWork 8738b36] Add hello.xml in GitWork branch
 1 file changed, 1 insertion(+)
 create mode 100644 hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (GitWork)
$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ echo "<message>Hello from master</message>" > hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git add hello.xml
warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the nex
t time Git touches it

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git commit -m "Add hello.xml in master branch"
[master 4838c86] Add hello.xml in master branch
 1 file changed, 1 insertion(+)
 create mode 100644 hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate --all
* 4838c86 (HEAD -> master) Add hello.xml in master branch
| * 8738b36 (GitWork) Add hello.xml in GitWork branch
|/
* befa6d9 (origin/master) Add branchfile.txt in GitNewBranch
* 03c513d Add branchfile.txt in GitNewBranch
* baa960d Add .gitignore to exclude .log files and log folder
* e87706b Add .gitignore to exclude .log files and log folder
* 989b190 Initial commit with welcome file
```

```
pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git diff master GitWork
diff --git a/hello.xml b/hello.xml
index b9ba826..70ee07a 100644
--- a/hello.xml
+++ b/hello.xml
@@ -1 +1 @@
-<message>Hello from master</message>
+<message>Hello from branch</message>

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git merge GitWork
Auto-merging hello.xml
CONFLICT (add/add): Merge conflict in hello.xml
Automatic merge failed; fix conflicts and then commit the result.

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master|MERGING)
$ notepad++ hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master|MERGING)
$ git add hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master|MERGING)
$ git commit -m "Resolve merge conflict in hello.xml"
[master a93b7c2] Resolve merge conflict in hello.xml

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ echo "*.orig" >> .gitignore

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git add .gitignore
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the ne
xt time Git touches it

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git commit -m "Ignore backup files"
[master c99d760] Ignore backup files
 1 file changed, 1 insertion(+)

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch -d GitWork
Deleted branch GitWork (was 8738b36).

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git log --oneline --graph --decorate
* c99d760 (HEAD -> master) Ignore backup files
*   a93b7c2 Resolve merge conflict in hello.xml
|\
| * 8738b36 Add hello.xml in GitWork branch
* | 4838c86 Add hello.xml in master branch
|/
* befa6d9 (origin/master) Add branchfile.txt in GitNewBranch
* 03c513d Add branchfile.txt in GitNewBranch
* baa960d Add .gitignore to exclude .log files and log folder
* e87706b Add .gitignore to exclude .log files and log folder
* 989b190 Initial commit with welcome file
```

5. Git-HOL

5. Git-HOL.docx

Output:

```
pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git branch -a
* master
  remotes/origin/master

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git pull origin master
From https://gitlab.com/pjvetheshsai-group/gitdemoo
 * branch            master     -> FETCH_HEAD
Already up to date.

pjvet@Jvethesh-PC1 MINGW64 ~/GitDemo (master)
$ git push origin master
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (12/12), 1.14 KiB | 234.00 KiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: To create a merge request for master, visit:
remote:   https://gitlab.com/pjvetheshsai-group/gitdemoo/-/merge_requests/new?me
rge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/pjvetheshsai-group/gitdemoo.git
   befa6d9..c99d760  master -> master
```

🔀 master ⌄	gitdemoo

📁 **gitdemoo**   [+ ⌄] [Find file] [**Code** ⌄] ⋮

Ignore backup files   c99d7601 📋   History
P.Jvethesh Sai authored 5 minutes ago

Name	Last commit	Last update
🔶 .gitignore	Ignore backup files	5 minutes ago
📄 branchfile.txt	Add branchfile.txt in GitNewBranch	19 minutes ago
📄 hello.xml	Resolve merge conflict in hello.xml	6 minutes ago
📄 welcome.txt	Initial commit with welcome file	1 hour ago