**Exercise 1  
Commands & Outputs**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ git version**

**git version 2.50.1.windows.1**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ git config --global user.name "Deepthi06"**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ git config --global user.email "Deepthi0676@gmail.com"**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ git config --global --list**

**user.name=Deepthi06**

[**user.email=Deepthi0676@gmail.com**](mailto:user.email=yashramu2016@gmail.com)

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ alias notepad**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ alias notepad='/c/Program\ Files/Notepad++/notepad++.exe &'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ notepad**

**[1] 1503**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ notepad ~/.bashrc**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~**

**$ git init**

**Initialized empty Git repository in C:/Users/DEEP/.git/**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git status**

**On branch master**

**No commits yet**

**Untracked files:**

**(use "git add <file>..." to include in what will be committed)**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git add welcome.txt**

**warning: in the working copy of 'welcome.txt', LF will be replaced by CRLF the next time Git touches it**

**No commits yet**

**Changes to be committed:**

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

**new file: welcome.txt**

**Untracked files:**

**(use "git add <file>..." to include in what will be committed)**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git clone https://gitlab.com/DEEPramu2016-group/gitdemo**

**Cloning into 'gitdemo'...**

**info: please complete authentication in your browser...**

**warning: redirecting to https://gitlab.com/DEEPramu2016-group/gitdemo.git/**

**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 (from 0)**

**Receiving objects: 100% (3/3), done.**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git commit -m "Added welcome.txt"**

**[main 5e058f4] Added welcome.txt**

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

**create mode 100644 welcome.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git push origin main**

**warning: redirecting to https://gitlab.com/DEEPramu2016-group/gitdemo.git/**

**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), 314 bytes | 314.00 KiB/s, done.**

**Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)**

**To https://gitlab.com/DEEPramu2016-group/gitdemo**

**fa7523b..5e058f4 main -> main**

**Exercise 2  
Commands & outputs**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ cd ~/gitdemo**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ touch error.log**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ mkdir log**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ touch log/debug.log**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ touch .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ notepadpp .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ 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)**

**.gitignore**

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

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git add .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git commit -m "Add .gitignore to log files and folders"**

**[main 4b2d907] Add .gitignore to log files and folders**

**1 file changed, 2 insertions(+)**

**create mode 100644 .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ 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**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git add .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git commit -m "added .gitignore file"**

**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**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git push**

**warning: redirecting to https://gitlab.com/DEEPramu2016-group/gitdemo.git/**

**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), 338 bytes | 338.00 KiB/s, done.**

**Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)**

**To https://gitlab.com/DEEPramu2016-group/gitdemo**

**5e058f4..4b2d907 main -> main**

**Exercise 3   
Commands & Outputs**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)  
$ mkdir GitlabHandson**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ cd GitlabHandson**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git init**

**Initialized empty Git repository in C:/Users/DEEP/GitlabHandson/.git/**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ echo "Initial commit file" > init.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git add init.txt**

**warning: in the working copy of 'init.txt', LF will be replaced by CRLF the next time Git touches it**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git commit -m "Initial commit"**

**[master (root-commit) 6f53aad] Initial commit**

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

**create mode 100644 init.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git branch GitnewBranch**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git checkout GitnewBranch**

**Switched to branch 'GitnewBranch'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ git branch**

**\* GitnewBranch**

**master**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ echo "This is a new feature"> feature.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ git add feature.txt**

**warning: in the working copy of 'feature.txt', LF will be replaced by CRLF the next time Git touches it**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ git commit -m "Added feature.txt with content"**

**[GitnewBranch 3904cea] Added feature.txt with content**

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

**create mode 100644 feature.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ git status**

**On branch GitnewBranch**

**nothing to commit, working tree clean**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitnewBranch)**

**$ git checkout master**

**Switched to branch 'master'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git diff GitnewBranch**

**diff --git a/feature.txt b/feature.txt**

**deleted file mode 100644**

**index 48af23d..0000000**

**--- a/feature.txt**

**+++ /dev/null**

**@@ -1 +0,0 @@**

**-This is a new feature**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git difftool master GitnewBranch**

**Viewing (1/1): 'feature.txt'**

**Launch 'p4merge' [Y/n]? Y**

**The diff tool p4merge is not available as 'p4merge'**

**fatal: external diff died, stopping at feature.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git config --global diff.tool p4merge**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git config --global merge.tool p4merge**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git merge GitnewBranch**

**Updating 6f53aad..3904cea**

**Fast-forward**

**feature.txt | 1 +**

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

**create mode 100644 feature.txt**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git log --online --graph --decorate**

**fatal: unrecognized argument: --online**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git log --oneline --graph --decorate**

**\* 3904cea (HEAD -> master, GitnewBranch) Added feature.txt with content**

**\* 6f53aad Initial commit**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git branch -d GitnewBranch**

**Deleted branch GitnewBranch (was 3904cea).**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git status**

**On branch master**

**nothing to commit, working tree clean**

**Exercise 4  
Commands & Outputs**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git config --global diff.tool p4merge**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git config --global difftool.p4merge.cmd '"C:/Program Files/Perforce/p4merge.exe" "$LOCAL" "$REMOTE"'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git config --global merge.tool p4merge**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git config --global mergetool.p4merge.cmd '"C:/Program Files/Perforce/p4merge.exe" "$BASE" "$LOCAL" "$REMOTE" "$MERGED"'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ git config --global mergetool.p4merge.trustExitCode false**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~ (master)**

**$ cd GitlabHandson**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git status**

**On branch master**

**nothing to commit, working tree clean**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git checkout -b GitWork**

**Switched to a new branch 'GitWork'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ echo "<greet> Hello from Gitwork branch</greet>" > hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ echo "<update> Updated in Gitwork</update>" >> hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ git status**

**On branch GitWork**

**Untracked files:**

**(use "git add <file>..." to include in what will be committed)**

**hello.xml**

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

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ git add hello.xml**

**warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ git commit -m "Updated hello.xml in gitwork"**

**[GitWork fb933e6] Updated hello.xml in gitwork**

**1 file changed, 2 insertions(+)**

**create mode 100644 hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (GitWork)**

**$ git checkout master**

**Switched to branch 'master'**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ echo "<greet> Hello this is greeting from master</greet>" >hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git add hello.xml**

**warning: in the working copy of 'hello.xml', LF will be replaced by CRLF the next time Git touches it**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git commit -m "Added hello.xml in master"**

**[master 2137088] Added hello.xml in master**

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

**create mode 100644 hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git log --oneline --graph --decorate --all**

**\* 2137088 (HEAD -> master) Added hello.xml in master**

**| \* fb933e6 (GitWork) Updated hello.xml in gitwork**

**|/**

**\* 3904cea Added feature.txt with content**

**\* 6f53aad Initial commit**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git diff Gitwork**

**diff --git a/hello.xml b/hello.xml**

**index 9ea5342..378e168 100644**

**--- a/hello.xml**

**+++ b/hello.xml**

**@@ -1,2 +1 @@**

**-<greet> Hello from Gitwork branch</greet>**

**-<update> Updated in Gitwork</update>**

**+<greet> Hello this is greeting from master</greet>**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git difftool Gitwork**

**Viewing (1/1): 'hello.xml'**

**Launch 'p4merge' [Y/n]? Y**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (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.**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master|MERGING)**

**$ git status**

**On branch master**

**You have unmerged paths.**

**(fix conflicts and run "git commit")**

**(use "git merge --abort" to abort the merge)**

**Unmerged paths:**

**(use "git add <file>..." to mark resolution)**

**both added: hello.xml**

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

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master|MERGING)**

**$ git mergetool**

**Merging:**

**hello.xml**

**Normal merge conflict for 'hello.xml':**

**{local}: created file**

**{remote}: created file**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master|MERGING)**

**$ git commit -m 'resolved merge conflict in hello.xml'**

**[master f0c9869] resolved merge conflict in hello.xml**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git commit -m "resolved merge conflict in hello.xml"**

**On branch master**

**Untracked files:**

**(use "git add <file>..." to include in what will be committed)**

**hello.xml.orig**

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

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ echo "\*.orig" >> .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git add .gitignore**

**warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git commit -m "Ignored backup files from merge conflicts"**

**[master 9be4070] Ignored backup files from merge conflicts**

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

**create mode 100644 .gitignore**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git branch**

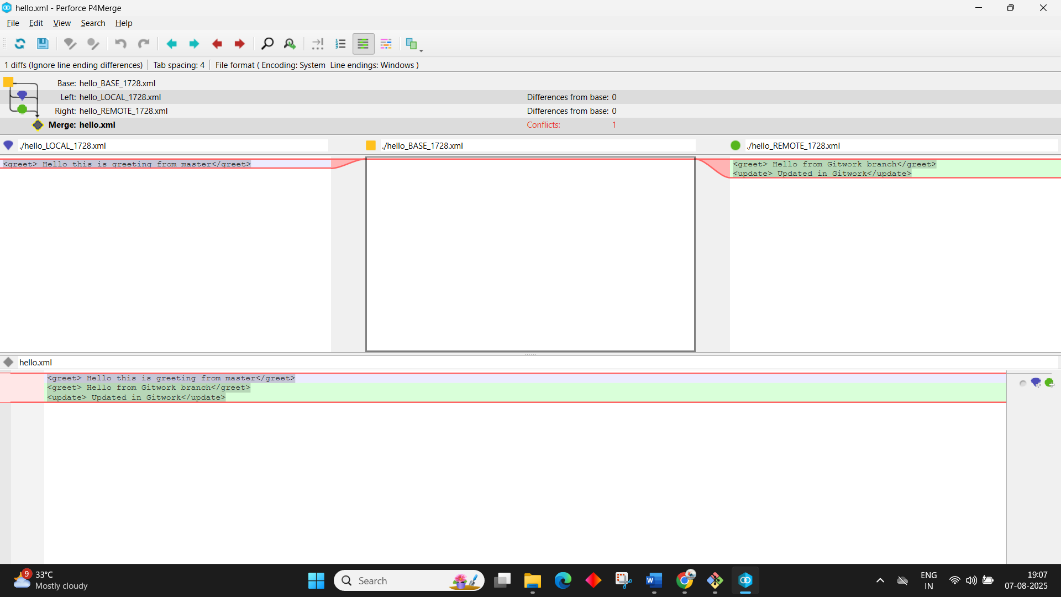
**GitWork**

**\* master**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/GitlabHandson (master)**

**$ git branch -d GitWork**

**Deleted branch GitWork (was fb933e6).**

****

**A screenshot of a computer

AI-generated content may be incorrect.**

**Exercise 5  
  
Commands & Ouputs**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git status**

**On branch main**

**Your branch is up to date with 'origin/main'.**

**nothing to commit, working tree clean**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git branch -a**

**\* main**

**remotes/origin/HEAD -> origin/main**

**remotes/origin/main**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git pull origin main**

**warning: redirecting to https://gitlab.com/DEEPramu2016-group/gitdemo.git/**

**From https://gitlab.com/DEEPramu2016-group/gitdemo**

**\* branch main -> FETCH\_HEAD**

**Already up to date.**

**DEEP@LAPTOP-9JTT85HS MINGW64 ~/gitdemo (main)**

**$ git log**

**commit 4b2d907a22ba788962582bdbe9b3fd53275d9ece (HEAD -> main, origin/main, origin/HEAD)**

**Author: Deepthi06 <Deepthi0676@gmail.com>**

**Date: Thu Aug 7 11:15:07 2025 +0530**

**Add .gitignore to log files and folders**

**commit 5e058f403ed864fcb3bd9370c4d3dc189a6c8a34**

**Author: Deepthi06 <Deepthi0676@gmail.com>**

**Date: Thu Aug 7 10:22:52 2025 +0530**

**Added welcome.txt**

**commit fa7523bff63a08ec4da59ee269a30673d7b565b5**

**Author: DEEPwanth Saran <Deepthi0676@gmail.com>**

**Date: Thu Aug 7 03:50:32 2025 +0000**

**Initial commit**