Git Exercises:

Part 1 - Git Flow

1) Create a directory and there initialize a local git repo

2) Create a README.md file. Add some repository/project description

3) Commit file into the local repository

4) Make some additional commits into the master

5) Create 3 branches - feature/xFeature, feature/yFeature, feature/zFeature

6) Add to every branch a file with branch name + some different text. Please do several(4-5) commits for every branch.

7) Cherry-pick branch xFeature(last commit only) to master. Check repo tree and logs after

8) Rebase yFeature to master. Check repo tree and logs after.

9) Merge zFeature tto master. Check repo tree and logs after. What is the difference between all of them.

10) Add a remote repository(GET URL from git.en.devops.md) as origin - both http and ssh

11) Push all your locals to remote.

12) Modify something via web-interface and commit to master.

13) Make a commit and push it to remote.

14) Check the difference between fetch and pull. Here might be need of another "web modification"

15) Make 2 modifications - the first - via web, the 2nd - on your local. Pull now the code from remote.

16) Solve the conflicts.

17) Make a hard reset to the "0-point" of your local repo. Push it to remote.

18) Make a remote repo empty - both files and history.

Part 2 - Maintaining GitLab (solve after Virtualization training)

- Install GitLab CE in VM

- Try different OS (Debian 8, Ubuntu 14.04, CentOS 7)

- Install latest

- Install specified version (f.e. 8.3.5) and update to the latest

- Resolve all the problems during maintaing you own git.