GIT Command:

1. On the Skillable VM, install Azure CLI
2. Type **az extension add --name azure-devops** to install azure devops extension
3. In c:\users\student\, type mkdir demogit to create an empty directory.
   Then type **cd demogit** (c:\users\student\demogit)
   Then type **git init** (This is to initialize a empty git repo)
   All these are created in local machine.
4. Let's provide user credential by typing commands below:

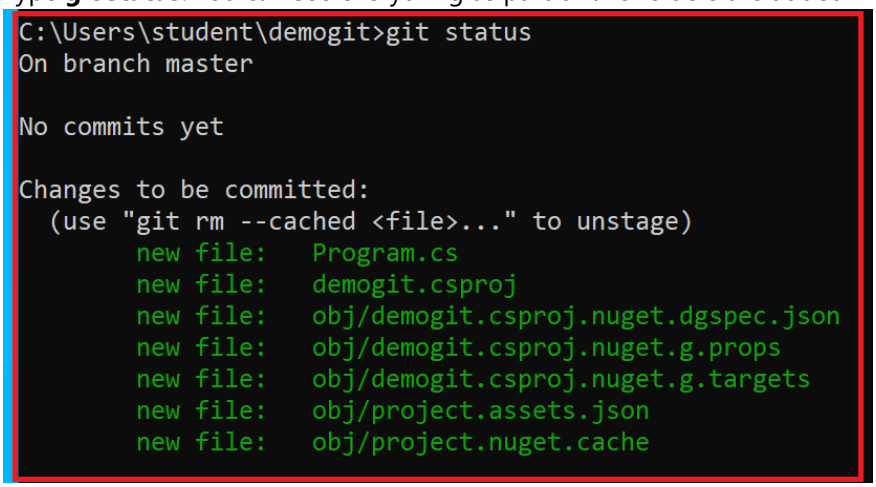
   git config –-global credential.helper wincred (This mean we want to use windows credential)
   git config –-global user.name "Your name"
   git config –-global user.email <your email address>

5. Next, we create console application now. We need vscode installed.
   Type: **dotnet new console** (The console application is added automatically)
   Type: **dir** (you can see a csproj file and a program.cs files added)

6. Next, type **git status**. Where is said No commit because we didn't send any commit command.

7. Next, we need to run git add <filename> to add all these files to my local repository
   Type: **git add .** (This mean all the files from my current folder which are denoted with . will be added to git repo)

8. Type **git status**. You can see everything as part of this folders are added into the repo.



9. Next use **git commit -m "Demo on Git"**. It is committed to my local git repo.

10. Type **git status** again. There is nothing to commit anymore.

11. To find out branches, type **git branch –-list.** So far we only has a single branch named master.
    To create new branch, type **git branch Feature1**. Then type **git branch –-list** again.
    Whichever with * and green color text indicate the current check out branch.

```
C:\Users\student\demogit>git branch --list
* master

C:\Users\student\demogit>git branch feature1

C:\Users\student\demogit>git branch --list
  feature1
* master
```

12. To check out feature branch, type **git checkout feature1**

```
C:\Users\student\demogit>git checkout feature1
Switched to branch 'feature1'

C:\Users\student\demogit>git branch --list
* feature1
  master
```

13. Let's add file to it. Type **notepad** – type something in notepad and save it as **Myfile.txt** in **c:\users\student\demogit.**
    Then type **dir**. You can see new file there.
    Then type **git add .**
    Then type **git commit -m "New file added"**
    Then type **git status** (You should see nothing to commit anymore)

14. Make sure we are still in feature1 branch. Type git branch –-list to check Feature1 has *

15. Next we merge feature1 branch to master branch.
    First we need to checkout master branch: **git checkout master**
    Then type : **git merge Feature1** (You will see feature1 is inserted to master)
    Then type: **git branch --list**
    Now the changes are in master branch.

```
C:\Users\student\demogit>git checkout master
Switched to branch 'master'

C:\Users\student\demogit>git merge feature
merge: feature - not something we can merge

C:\Users\student\demogit>git merge feature1
Updating dff586f..b5b81e3
Fast-forward
 myfile.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 myfile.txt

C:\Users\student\demogit>git branch --list
  feature1
* master
```

16. Now we can delete the Feature1 branch.
    Type: **git branch –delete feature1**
    Type: **git branch --list** (Now only master branch remains)

```
C:\Users\student\demogit>git branch --delete feature1
Deleted branch feature1 (was b5b81e3).

C:\Users\student\demogit>git branch --list
* master
```

17. We also can push this local repo to azure devops repo.
    In Azure Devops, create a new project (private – GIT – Scrum) or if there's an empty project, just use it.

18. Back to command prompt. Type **az login** to connect to azure devops.

19. Once login is successful, type: **az devops configure --defaults organization=<Your devops organization> project="<your project>"**

20. Got to azure devop – First project – repo – Files – copy the command in **Push an existing repository from command line:**
    paste: **git remote add origin <URL>**
    paste : **git push -u origin –all**

21. Now refresh the repo in Azure Devops, you will see codes/files in the repo