1. Check availability of Git.

```
PS D:\lab\Git> git --version
git version 2.20.1.windows.1
```

---

2. Create work directory to build your application. This folder and files and folders under this would serve as local repository.

```
PS D:\lab\Git> mkdir gitlab


    Directory: D:\lab\Git


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----        2/23/2019  10:44 AM                gitlab


PS D:\lab\Git> cd gitlab

PS D:\lab\Git\gitlab> ls
```

---

3. Create your code file to be version controlled.

```
PS D:\lab\Git\gitlab> notepad hello.py

PS D:\lab\Git\gitlab> ls


    Directory: D:\lab\Git\gitlab


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        2/23/2019  10:45 AM             21 hello.py


PS D:\lab\Git\gitlab> type .\hello.py
print ("Hello World")

PS D:\lab\Git\gitlab> python .\hello.py
Hello World
```

---

4. At present the folder just has code file and it become git local repository with “git init” command

```
PS D:\lab\Git\gitlab> dir -Force


    Directory: D:\lab\Git\gitlab


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         2/23/2019  10:45 AM             21 hello.py


PS D:\lab\Git\gitlab> git init
Initialized empty Git repository in D:/LAB/Git/gitlab/.git/

PS D:\lab\Git\gitlab> dir -Force


    Directory: D:\lab\Git\gitlab


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d--h--         2/23/2019  10:58 AM                .git
-a----         2/23/2019  10:45 AM             21 hello.py

PS D:\lab\Git\gitlab> dir .git


    Directory: D:\lab\Git\gitlab\.git


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
d-----         2/23/2019  10:58 AM                hooks
d-----         2/23/2019  10:58 AM                info
d-----         2/23/2019  10:58 AM                objects
d-----         2/23/2019  10:58 AM                refs
-a----         2/23/2019  10:58 AM            130 config
-a----         2/23/2019  10:58 AM             73 description
-a----         2/23/2019  10:58 AM             23 HEAD
```

---

5. However the code file is still not staged (Not being tracked) for version control in local repository. Here we “add” the file for staging in local repository.

```
PS D:\lab\Git\gitlab> git status
On branch master

No commits yet
```

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

        hello.py

nothing added to commit but untracked files present (use "git
add" to track)
PS D:\lab\Git\gitlab> git status -s
?? hello.py

PS D:\lab\Git\gitlab> git add .\hello.py

PS D:\lab\Git\gitlab> git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   hello.py

PS D:\lab\Git\gitlab> git status -s
A  hello.py
```

---

6. Commit the code to local repository so that current version of code file can be saved for future reference. Configure the identification of developer who commit the code to local repository.

```
PS D:\lab\Git\gitlab> git commit -m "first commit"

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'ACER@DESKTOP-
H9FJ387.(none)')

PS D:\lab\Git\gitlab> git config user.name "Prakash"

PS D:\lab\Git\gitlab> git config user.email "prakash@devops.com"

PS D:\lab\Git\gitlab> type .git/config
[core]
        repositoryformatversion = 0
```

```
        filemode = false
        bare = false
        logallrefupdates = true
        symlinks = false
        ignorecase = true
[user]
        name = Prakash
        email = prakash@devops.com

PS D:\lab\Git\gitlab> git commit -m "first commit"
[master (root-commit) 6739347] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 hello.py

PS D:\lab\Git\gitlab> git log
commit 6739347824b09657048bd57a051a31dc1cc2de41 (HEAD -> master)
Author: Prakash <prakash@devops.com>
Date:   Sat Feb 23 11:06:05 2019 +0530

    first commit
```

Try this !

If you want to commit all files and sub folders under current folder use following command.

```
PS D:\lab\Git\gitlab> git add .
```

If you want to commit with a required staging integrated in a single command use following command.

```
PS D:\lab\Git\gitlab> git commit –a –m “commit message”
```