GIT is version control system

* 1. 3 stages of file:
     1. Committed: Unmodified, Original state of file
     2. Modified: File in which changes are being made but not yet committed
     3. Staged: Changes are made and finalized and about to be committed
  2. 3 stages of git project:
     1. .git directory (repository): origin of project data and the project which is pulled down from server. This is where GIT stores metadata (object database for project).
     2. Working Directory: single copy (also called as checkout) of one version of the project. These files are pulled from .git directory compressed object database which are then modified.
     3. Staging area (Index): place where changes can be made to the project version in the working directory. When committing, only those files which are in staging area are committed.
  3. Set username and password for GIT to track who made the changes
     1. Set username 🡪 git config --global user.name “Shounak”
     2. Set email 🡪 git config --global user.email “Shounak.deshpande@cyberproof.com”
  4. To initialize the git repository, go to the folder and enter command: git init

It creates .git file containing the metadata.

* 1. To push a folder/project to github repository, go to github and create repository and check the CLI code suggested by Github.
     1. Echo “# repository\_name” >> README.md – creates repository
     2. Git add . – adds all files in the current folder
     3. Git commit –m “first commit”
     4. Git remote add origin https://<<github-repository\_url>> - links local folder to Github
     5. Git push –u origin master – pushes files to github repository
     6. Give username/password or token if prompted