Open code task 1

1. Git is a tool that’s used to manage multiple versions of source code edits that are then transferred to files in a Git repository, GitHub serves as a location for uploading copies of a Git repository. The following table enumerates the key differences between Git and GitHub:

|  |  |
| --- | --- |
| Git | GitHub |
| Git is software. | It is a service. |
| Linux maintains Git. | Microsoft maintains GitHub. |
| It is a command-line tool. | It is a graphical user interface. |
| You can install it locally on the system. | It is hosted on the web. It is exclusively cloud-based. |
| It is a VCS to manage source code history. | It is a hosting service for Git repositories. |
| It focuses on code sharing and version control. | It focuses on centralized source code hosting. |
| It lacks a user management feature. | It has a built-in user management feature. |
| Git was launched in 2005. | GitHub was released in 2008. |
| Git has minimum external tool configuration. | It has an active marketplace for tool integration. |

2.basic git commands

### git add

Moves changes from the working directory to the staging area. This gives you the opportunity to prepare a snapshot before committing it to the official history.

### git branch

This command is your general-purpose branch administration tool. It lets you create isolated development environments within a single repository.

### Git clone

Creates a copy of an existing Git repository. Cloning is the most common way for developers to obtain a working copy of a central repository.

### git fetch

Fetching downloads a branch from another repository, along with all of its associated commits and files. But, it doesn't try to integrate anything into your local repository. This gives you a chance to inspect changes before merging them with your project.

### git log

Lets you explore the previous revisions of a project. It provides several formatting options for displaying committed snapshots.

3.

1.first switch to branch to that you want to make a pull request for

2.click on pull request

3. On GitHub, confirm that the branch in the base: drop-down menu is the branch where you want to merge your changes. Confirm that the branch in the compare: drop-down menu is the topic branch where you made your changes.

4. Type a title and description for your pull request.

5. To create a pull request that is ready for review, click Create Pull Request. To create a draft pull request, use the drop-down and select Create Draft Pull Request, then click Draft Pull Request. For more information about draft pull requests.