Q) What is GitHub? When was it created? Why? By who? What similar platforms exist? Why would you use such a platform?

A) GitHub is a platform that solves problems by building software together. GitHub is created in 2008, git hub is used to provide the access control and collaboration features such as bug tracking, task management. It can be local to a folder on your computer, or it can be a storage space on GitHub or another online host.

GitHub is created by a software developer Tom preston-werner.

Like GitHub there used to be Source Forge,gitLab,Kiln,codeplex existed before GitHub and other open source.

We use GitHub due to its distributed version control systems.

Q) Define the following terms in the context of Git

* Repository : A repository is the most basic element of GitHub. Generically refers to a central place where data is stored and maintained. The purpose of git is to manage a project, or set of files, as they change over time. Git stores this information in a data structure called a repository.
* Commit : A commit is an individual change to a file or set of files. Its like when you save a file, except with git, every time you save it created unique id that allowes you to keep record of what changes were made.
* Push :  Pushing refers to sending your committed changes to a remote repository, such as a repository hosted on GitHub.
* Branch : A branch in Git is simply a lightweight movable pointer to one of these commits.
* Fork: Fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project.
* Merge: Merging takes the changes from one branch (in the same repository), and applies them into another.
* Clone : A clone is a copy of a repository that lives on your computer instead of on a website's server somewhere, or the act of making that copy. .
* Pull : Pull refers to when you are fetching *in* changes *and* merging them.
* Pull request: Pull requests are proposed changes to a repository submitted by a user and accepted or rejected by a repository's collaborators.