

# PW Skills Assignment

## 1) What is Git?

Git is a distributed version control application used by developers to keep and track their changes. This enables multiple people to work on the same code base simultaneously. Git also helps identify the merge conflicts and suggest resolution. Git when integrated with a release pipeline helps to automate the release process as well.

## 2) What do you understand by the term version control?

According to my understanding version control is a way to track and manage the changes being done to the code base.

## 3) What is Github?

Github is a cloud based git repository which provides version control and lot of other capabilities to manage a code base of an application, or an SDK or a pipeline or any piece of code. **Mention some popular git hosting service?**

Hosting services are those services which allow to host git based projects over their cloud servers. Some popular services are Gerrit, GitLab, Git Bucket, SourceForge.

## 4) Different Types of version control systems.

Different version control systems are Distributed Version Control System and Centralized Version control system.

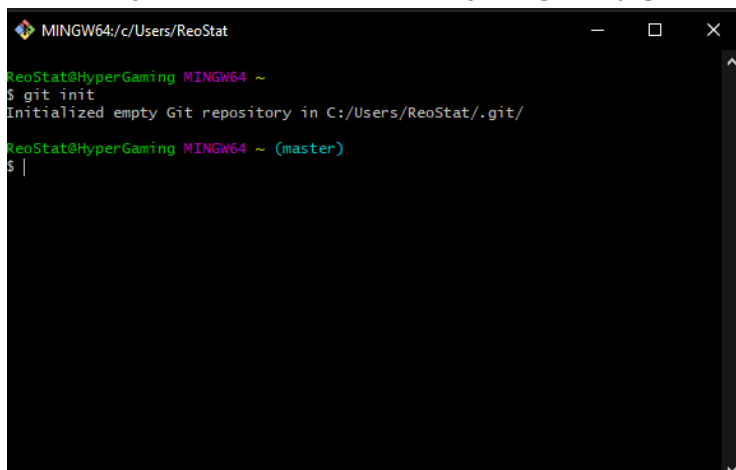
## 5) What benefits come using git?

Along with version control it also provides access control over the code base which means people with certain roles can do certain tasks. E.g only the admin can approve the pull requests. It also comes with bug tracing and requesting new features. Almost all open source software have exposed their code base via github as a result enthusiastic developers can code for them and fix the bugs from anywhere in the world.

## 6) What is a git repository?

A git repository is a piece of either a single file or a collection of files stored under a folder which we call as repository. This folder or repository can use all the features of GIT like version control, access control, bug tracking and many more.

## 7) How can you initialize a repository on git? By git init command



```
MINGW64/c:/Users/ReoStat
ReoStat@HyperGaming MINGW64 ~
$ git init
Initialized empty Git repository in C:/Users/ReoStat/.git/
ReoStat@HyperGaming MINGW64 ~ (master)
$ |
```