Git and Git-Hub Assignment

Q1- What is Git?
Ans-Git is a popular version control system, it was created by Linus Torvalds in 2005 and has been maintained by Junio Hamano.

Q2- What do you understand by the term 'Version Control System'?
Ans-A version control system, tracks the history of changes as people and teams collaborate on projects together.

Q3- What is GitHub?
Ans-To provide internet hosting for version control and software development, Git-Hub makes use of Git.

Q4-Mention some popular Git hosting services?
Ans-This is some popular git hosting services.
1: -GitHub
2: -GitLab
3: -Git Bucket
4: -Beanstalk

Q5- What benefits come with using GIT?
Ans- performance: Git provides the best performance when it comes to version control systems. Committing, branching, merging all are optimized for a better performance than other systems.
• Security: Git handles the algorithm manages my versions, files, and directory securely so that we work is not corrupted.
• Branching Model: Git branching model lets we have multiple local branches which are independent of each other.
• Staging Area: Git has an intermediate stage called "index" or "staging area" where commits can be formatted and

modified before completing the commit.?

Q6- Different type of version control system?
Ans- **Types of Version Control Systems:**
• Local Version Control Systems (LVCS).
• Centralized Version Control Systems (CVCS).
• Distributed Version Control Systems (DVCS).

Question 7: - What is a Git repository?
Ans- A Git repository tracks and saves the history of all changes made to the files in a Git project. It saves this data in a directory called. git, also known as the repository folder.
Types of Git Repository: -
1. Bare Repositories.
2. Non-Bare Repositories.

Q8-How can you initialize a repository in Git?
Ans-First we create a folder in any drive in our computer file manager.
Then-
> **Go into a project folder and initialize git.**
> $ cd /Users/PW_JAVA/java_skill
> $ git init
> **We have initialized an empty git repository in a. git folder**
> $ cd /Users/PW_JAVA/java_skill(master).
> **To add a file to the staging area**
> • $ git add story1.txt
> **To commit the changes**
> • $ git commit -m "Added first commit"

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