**Exercise on GitHub and Git**

1. **What is GitHub?**

GitHub is a web-service which offers all of the ‘distributed version control’ and ‘source code management’ functionality of Git as well as some additional features.

1. **When was it created?**

The development of GitHub platform began on October 2007 and site was launched in April 2008.

1. **Why?**

SCM efficiently merges multiple developers, it is the driving force behind open source software. It is a great tool to determine when the bug was introduced. Also, The source code is stored remotely thus protecting it from physical damages to machine, hard drive thefts, and human errors.

1. **By who?**

Tom Preston-Werner, Chris Wanstrath, and PJ Hyett.

1. **What similar platforms exist?**

Apache Subversion, Mercurial, and BitKeeper are some of the similar platforms.

1. **Why would you use such a platform? (Answer between 5 and 10 lines)**

I would use such a platform to collaborate with the developer worldwide. My source code would become available to multiple other budding developers who might contribute to it for better. As an open source software enthusiast even I would like to contribute to enhance the already running source code through the help of this platform.

**Define the following terms in the context of Git (2 lines maximum):**

* **Repository**

A folder(Directory) where git has been initialized.

* **Commit**

Commit enables to finalize/perform any staged changes.

* **Push**

push enables us to push the file to the remote repository.

* **Branch**

Branch creates a branch/copy of the source code so that we can make changes to it before committing changes to the master.

* **Fork**

Fork is the instance of repository we forked from another developer.

* **Merge**

Merge enables us to merge the Branch to master.

* **Clone**

It is a local clone of fork.

* **Pull**

Pull/accept the changes committed by the contributor.

* **Pull request**

Request sent to the base master repository to pull the committed changes.

1. Forked the repository and created a clone on local machine using **git clone URL**.
2. echo “Londhe, Nikhil, June 01” >> README.md
3. git add README.md
4. git commit –m “Added Name and Comment”
5. git push –u origin master
6. Went to the GitHub Console created a new pull request from the fork and submitted the pull request.