**Assignment 5**

1. **What is Git?**

Git is the most commonly used version control system. Git tracks the changes you make to files, so you have a record of what has been done, and you can revert to specific versions should you ever need to.

1. **What do you understand by the term Version Control System?**

Version control systems are a category of software tools that helps in recording changes made to files by keeping a track of modifications done in the code.

1. **What is GitHub?**

GitHub is a Git repository hosting service. GitHub also facilitates many of its features, such as access control and collaboration. It provides a Web-based graphical interface.

1. **Mention different git hosting services?**

* Bitbucket
* GitHub
* GitLab
* Perforce
* Beanstalk
* Amazon AWS CodeCommit
* Codebase
* Microsoft Azure DevOps
* SourceForge
* Gerrit

1. **Different types of version control system?**

* Local Version Control System
* Centralised Version Control System
* Distributed Version Control System

1. **What benefits come with using Git?**

* Revert code files back to their previous state
* Recall and revert the entire project back to previous state
* Compare code changes over specific duration of time
* Who introduced a particular issue and when

1. **What is a Git Repository?**

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.

1. **How can you initialise a repository in Git?**

By using the function git init.