**Version Control;**

It helps record changes to a file with the retrieval of the same later on and allows teams to work collaboratively on a file. It also tracks changes that have been made on a particular file by individuals.

**Why it is important;**

**Collaboration-**Teams can work together on certain things and this helps in moving the work load quicker and also addresses issues faster.

**Back up and restoration-** Changes that have been made will easily be tracked and can be restored in due time.

**Merging and Branching-** Teams can combine efforts on different issues and work seamlessly.

**Tracking and accountability-** Changes made by one individual can be tracked and this makes it easy to be able to refer to what has been done by an individual.

**Git**

This is a tool that is open source, widely used, and helps teams to work on similar projects within one platform. It allows for speed and efficiency of the work done.

**Main features of Git**

**Efficiency and Speed**. Some features such as merge can be done in this space in an efficient way and quicker.

**Distribution among members**: All individuals have access to their repository to means that they can have this access and work on their items with ease.

**Branching Model:** Git allows for branching models and thus reduces overheads in any workflow.

**Introduction to GitHub**

This is a cloud hosting service that allows you to manage your repositories. It provides collaboration and bug-tracking features that allow easier working on the space for different projects.

**Why use GitHub**

**Collaboration is easy;** Teams can easily work together on different items

**Project management tools;** several project management tools can be leveraged such as tracking a project.

**Open source and private source;** It provides an array of projects in the repository but also provides a space to be able to work on private work.

**The power of Git and GitHub**

For many development workflows, having Git and GitHub allows for a collaboration platform as well as a cloud-based hosting space, and thus easy to work on projects and move work across different people who are doing different works on a project. Developments becomes easy and accessible.

**Basic Commands**

These commands are essential in ensuring that you can collaborate and track changes in your project while working with others.