**Git:** Git is used to manage individual’s code, we can manage and share our code and we can also mark checkpoints in our code. It is used to track changes in code over time. Git operates locally means all the changes will be saved in our computer.

**GitHub:** GitHub is used when we have many people and we want to merge everybody’s code into a single file without sharing the code with other tools.

1. First download [Git](https://git-scm.com/downloads).
2. Run these commands to setup Git locally.
   1. git config –global user.name “Aman” - **This is the username everybody will see**
   2. git config –global user.email “[aman@gmail.com](mailto:aman@gmail.com)” – **This is the email address displayed to everyone**
   3. git config –global core.autocrlf “input” – **This is used when code will not work**
   4. git config –global core.editor “code –wait” – **If code is not correct then VS Code or any other code editor will open**
3. To make git available in our project then click on **Source Control** from the left side on third number and then click on **initialize repository**.
4. Stages:
   1. U – Untracked 🡪 Not tracked by GitHub.
   2. A – Added or staged 🡪 Managed by GitHub.
   3. C – Committed 🡪 Added to GitHub repository.
   4. M – Modified 🡪 Added new content to the file.
5. Checkpoint:
   1. Create a file of any type you want.
   2. Click on source control tab and click on staged changed and click on “+” to add into staged changes.
   3. Then type any type of message related to work you did till now and click on commit.
   4. This will add a checkpoint to your code and now you can do your further work.
   5. Then again you can do the same thing to mark another checkpoint into you file.
   6. **To see the checkpoints of your file: use this command 🡪 git log –oneline**
      1. The checkpoints will have unique ID, this can be used to manage the checkpoints.