**GIT AND GITHUB**

**WORKING DIRECTORY STAGING AREA LOCAL REPOSITORY**

**REMOTE REPOSITORY**

**GIT COMMANDS**

**git init** --> creates hidden folder called .git

**git status** --> current status of local git repository

untracked files/changes => when you create a new file in workspace it is untracked

**git add .** --> add all new created file/folders to staging area

**git add "\*.java"** --> add only java files

**git commit -m "" -->** save a version ("m" stands for a message). you can name updates. you can commit stuff those are currently in staging area. Every commit has **commit hash** which is a unique id for eac commit.

**git log -->** shows the history of commints

**STEPS TO SAVE/PUSH**

**git remote add origin weblink.git** --> connects local repository to remote reposritory in github

**git push** --> pushes local repository to **Github** remote repository. When you try to push your local repo should have everything in remote repo

**git remote -v** --> shows the remote repository path

=============================================

**git pull** --> pulls remote repository to local repository. This command does two commands together:

**git fetch** --> pulls all changes to local repo. But can't see that in your workspace yet;

**git merge -->** combine changes from different sources

\*\*\*your first day at work and support team/lead gave you work laptop. And he/she sent you Github URL repository for the automation project:

***You need to clone the Repository in Github to your machine!***

1. get the repo url
2. in your computer create an empty folder with same name as the github repository
3. open command promt and navigate to that folder
4. **git clone weblink**.git clone it to your computer
5. import to IDE = File>New>Project from existing sources