**Introduction**

**Description**

Yuan:

I learned the levels of Git. It starts from Working Directory🡪Staging Area🡪Local Repository🡪Remote Repository.

To be able to move the content from one level to another level, we need to give a different command respectively. For example, we need to use “add” command to move our local changes to stage area. We need to use “commit” to move changes from stage area to local repository. We use “push” to push from local repository to remote repository. At one point even thought I was following the steps, I missed some steps, but I was able to use git “reverse commit” to go back to where I made the mistake.

When I tried to push my homework to remote Github, I got authentication issues. I first thought it could be some wrong saved credentials then I removed all the saved credentials including Windows Credentials Manager and SourceTree credentials, but it still did not work. I spend a lot of time searching, then it turns out I need to update my git.

I have been using git at work. The challenge we always face is merge conflicts. We currently are using KDiff extension to help us resolve the conflicts, but sometimes, we still spend a lot of time to resolve the conflicts. So I am still trying to find if there is an even smarter tool available to support merge conflicts.

**GitHub URL**

<https://github.com/yuanli11/gitPDGroup5.git>