**Udemy learning course part-3**

* **Conflicts and how to resolve it:**
* For example, two branches created:
* Branch one is testforconflict
* Branch two is develop
* When you tried to merge testforconflict into develop branch conflict will come because it will try to merge all the files from testforconflict. The file name would be same so no conflict. Content is different than conflict will come.
* **How to resolve this conflict:**
* We can download one software that is **"tortoisegit".**
* By using tortoisegit we can resolve the conflict
* Open tortoisegit
* Right click on the conflict
* One popup window open
* Click on use this whole file.

**Section-4**

* **Git clean:**
* The git clean command is used to removed untracked files and directories from a repository.
* Create file touch <file name>
* Create directory mkdir <directory name>
* To remove the created file and directory
* Git clean -f (it removes the file)
* Git clean -fd (it removes the directory and file also)
* **Undoing changes on existing file**
* This command will discard any changes made to the specified file and revert it to its previous state.

Git checkout -- <filename>

* **Git revert:**
* The git revert command is used to create a new commit that undoes the changes made in a previous commit.

Git revert <commit id>

Note: it works like undo.

* **Git reset**:
* It is used to reset the current branch head to a specified state and optionally reset the index and working tree to match.

Git reset --soft <commit id> (files not removed) remove the commit id from the logs from the history.

Git reset --hard <commit id> (files removed)

* **Git fetch:**

Git fetch only downloads new data from a remote repository.

Git pull = git fetch +git merge

* **Git merge**:
* The git merge command is used to integrate changes from one branch into another
* **Git pull:**
* The git pull command is used to fetch changes from remote repository and merge into local Repository.