**GIT**

**Create a new feature Branch**

We can directly create a branch using Bitbucket UI or using Gitbash as well using below commands.

**Take code from git repository to local**

**$ git clone**

The git clone command copied the project from the remote repository in Git to a local folder. Cloning also created a hidden .git directory inside the project folder. The .git directory contains the local repository. It's where Git stores the project's change history, as well as a reference to the remote repository it was cloned from.

**Merge a branch into another**

We can create a pull request (for ex, feature/a to feature/b) from bitbucket and merge the code but if there is any conflict then we have to first resolve it by using below steps:

* Get a pull request from feature/a

git pull feature/a

* Hit merge request from git bash/ cmd as:

git merge origin origin/feature/b

* Once we hit this request, we will get conflicts in STS, which we can check one by one, update them per our requirement and resolve all conflicts.
* Once conflict resolved, we can merge the code.

If two persons P1,P2 are working on the same branch and if P2 has made some changes in file f1 and f2 and merged and push to the branch.

On the other hand if P1 as well worked in file f1 and didn’t take pull from origin till now.

So if P1 is going to push his changes to origin, he ll get conflict. To resolve this he has to take pull from origin and resolve the conflicts first, Once the conflicts got resolved now all changes from P1 and P2 will be in indexed (in eclipse git) and we can commit and push these changes.

If anytime in these steps we lost our changes in any file then need to choose the file and compare with local history. It will show all the changes we have saved locally with time

**Git squash:**

git log --oneline –graph

git reset --soft 13d2ec23c24

git commit -m "comments"

git push -f

**Git revert to previous commit**

Revert to previous commit

git reset --hard HEAD

git status

git push -f