**PHANIDEEP SALAPAKA**

**SOFTWARE METHODS AND TOOLS**

**ASSIGNMENT #9**

**GIT**

Initially created a remote repository called RemoteRepo.git using following command

**git init –bare**, by inside RemoteRepo.git directory.

Now I have created a local repository for user1 called Localrepo1 and added Tetris games files to it using following commands

**git init** (inside Localrepo1 directory)

Added Tetris project files manually inside the directory

Then adding those files to git using following commands

**git add \*** , later this command user1 commited his changes and pushed it to repository.

**git commit –m** “First Commit of Tetris Game Code Repository”.

**git remote add origin file:///C/Users/DayanandaSaraswathi/Documents/GitHub/RemoteRepo.git**

now pushing it to master branch of remote repo

**git push origin master**

All right now couple of developers were added to the team they are user2 and user3.

They will clone the remore repository using following commands respectively(please go out of other user directory while executing below commands)

User2 Clone:

**git clone file:///C/Users/Phanideep/Documents/GitHub/RemoteRepo.git Localrepo2**

User3 Clone:

**git clone file:///C/Users/Phanideep/Documents/GitHub/RemoteRepo.git Localrepo3**

User2 made changes to Tetris.java and pushed to origin master

**git status -v**

**git add BoardPanel.java**

**git commit -m** "Fixed an problem in score of tetris game"

**git push origin master**

Now, user3 started working on his code he doesn't know master has been changed and without taking update he also fixed the same issue in BoardPanel.java

**git status -v** user3 has changed BoardPanel.java file.

now user3 stages the file to commit and push to origin master

**git add BoardPanel.java**

**git commit -m** "User3: fixed Board panel issue”

Now, at this point we will an error saying we need to take update from master before pushing code to it, because master in remote is ahead of one commit than user3.

To solve this we will fetch master with remote and merge will merge the changes to local

**git fetch origin**

**git merge origin/master**

Above two command solves the problem.

Now, user3 again can user push command to push his changes

**git push origin master**

Now user1 will create remote development branch, as there is only one copy of master branch So user1 will pull the new code and creates a development branch locally

**git pull origin**

**git checkout -b development**

Now to create a remote tracking brach i used following command

**git push origin development**

To see above changes use **git remote show origin**

Now other developers start using the development brach, they can track it remotely.

**git fetch origin**

**git checkout -b dev origin/development**

Now user2 made some changes in development branch

git status -v to see modified files

Now user2 will merge with his master branch

**git checkout** **master**

**git merge dev**

That's how user2 got user1 code got merged into local master.

now user2 will push local master to remote using

**git fetch origin**

**git merge origin/master**

**git push origin master.**