Git ICE

Team01

1. First, have all team members download and install [Git](https://git-scm.com/downloads).
2. Next, have all team members create a [BitBucket](https://bitbucket.org/) account (if they do not already have one).
3. Have one member of your team create a new repository.
   1. Select the ‘Repositories’ dropdown and press “Create repository”
   2. Pick a name of your choosing.
   3. To keep things simple, make the repository public
4. The person that created the repository should now do the following:
   1. Create a new folder on their computer
   2. Using what was taught in the slides, initialize an empty git repository and add a remote named origin that links it to the repository you created on BitBucket.
   3. Create a new text file – call it whatever you’d like
      1. Write “Hello world” on the first line
   4. Add and commit your changes, then push them.
5. The other people in your group should now clone the repo
6. After they have cloned the repo, have the person that created the repository do the following:
   1. Leave the second line of the text file blank
   2. Write something on the third line
   3. Add and commit your changes, then push them
7. Have one member add text to the second line.
   1. Add and commit your changes, but do not push them
8. Before continuing, discuss whether or not you think pulling will create a merge conflict. If so, why?
9. Have the member that added text to the second line of the file pull from the repo.
   1. If there are any merge conflicts, fix them.
10. Next, have someone on your team create a new branch – call it ‘new’
    1. Add text to the fourth line of the file.
    2. Add and commit your changes, then push to the branch new  
       ‘git push -u origin new’
11. A different person should now pull these changes.
    1. On branch master, edit the text on the first line of the file.
12. Before continuing, discuss whether or not you think merging ‘master’ and ‘new’ will create a merge conflict. If so, why?
13. Merge branch ‘new’ into master
    1. If there are any merge conflicts, fix them.
14. After merging, delete the branch ‘new’ both locally and from your repository.
15. You’re done!