eclipse, git, terminator and bash

1. What is Terminator?
   * + 1. A program that allows you to run a shell program where you can type commands
       2. **open a terminator window**
          1. What does the window tell you?
          2. What is your home directory?
          3. What is “~/” short hand for
          4. How to add the terminator icon to the panel
          5. how to add the terminator icon to the favorites list
          6. Why do this?
       3. useful commands
          1. cd (change directory)

cd to workspace/TrobotWorkstationSetup/u

how change back to home?

What does the tab key do if you type a few letters of the new directory that you want to change to?

* + - * 1. pwd (present working directory)

type **pwd** into the terminator window

What did it tell you?

* + - * 1. ls (list)

ls (list)

ls -a (list all)

ls -l (list long)

ll (short cut for list long)

* + - * 1. man (manual)

man ls

man cd

man pwd

man find

1. What is git?

Git is a program called version control that a team uses to control versions of their program. Both HS and MS robotics team use git to version/backup their software.

* + 1. Git cheat sheet –pass it out now.
    2. Github ? https://github.com/
    3. What is a repository ?
    4. What is a commit ?
    5. What is a branch ?

1. We need to do our first git work
   1. **cd workspace/TrobotWorkstationSetup**
   2. do an **ls \*.sh** What did it show you **?**
   3. **git pull**
      1. what do you think **git pull** did?
      2. Do another **ls \*sh** Are there new files there?
2. What is gedit?
   1. How to open gedit?
   2. how to save files in gedit
      1. edit the file /home/mg15/workspace/TrobotWorkstationSetup/setup-git.sh
      2. set the user.mail value to "WLHSRoboticsTeam@gmail.com"
      3. set the user.name "WL Robotics"
      4. run setup-git.sh in bash by typing these commands in a new terminator window
         1. **“workspace/TrobotsWorkstationSetup/setup-git.sh”**
         2. what happened?
3. Basic git Commands
   1. git clone
      1. **cd to ~/workspace**
      2. **clone** [**https://github.com/WhitmoreLakeTroBots/Java-Lessons-Student-Work.git**](https://github.com/WhitmoreLakeTroBots/Java-Lessons-Student-Work.git)
      3. **cd Java-Lessons-Student-Work**
   2. check the repository status with **git status**
      1. What branch are you on?
      2. What is your status?
   3. Review the log with **git log**
   4. what did git log show you?
4. Look at all branches that exists with **git branch -vv**
   1. what did **git branch -vv** show you?
5. Pull all branches from git hub with **git fetch -all**
   1. what did **git fetch -all** do ?
   2. Checkout the master branch with **git checkout master**
   3. Perform a git status to verify that you are on branch master
6. Create your own branch with this command putting in the first 4 letters of your last name and first 3 letters of your first name **git branch -b <lastfirst>**
7. gitg
   * 1. what is gitg ?

A graphical tool used to view a git repository

* + 1. Why is it useful ?
    2. What does it do?
    3. Picture of the repository? Do you see your branch ?
    4. push your personal working branch back to github **git push origin <lastfirst>**
    5. pull down every branch with **git fetch -all**
    6. perform a refresh in **gitg** to view everybody's branch

1. What is eclipse?