ECE6213 Unix environment setup
(for Cadence & Synopsys)

1. Make sure you have an active SEAS account.(You'll need to apply for it if necessary)
   How to login to the Lab Sever:
   1. **Connect to VPN** before your opening a browser.
   2. Type the following address:
       https://vlsi.seas.gwu.edu:3443
   3. Login with your NetID and password.

2. Open a terminal window. Right lick anywhere on the desktop, choose
   Tools-->Terminal

3. Once the terminal opens, you will see a "$" this is the system prompt.
   At the "$" prompt, type the following command:

   mkdir cadence

   This will create a new folder/directory, called: cadence, for you to store your work in.

4. At the prompt, now type the following command:

   cd cadence

   This 'changes the directory' and puts you in the cadence folder you just created.
   Every time you login (in the future), you will want to make sure your in the
   'cadence' folder.

5. Setup your tools environment path.
You will have two options:
Option-I:
Download ".bashrc" file (from BB)
Run the following in your home direction each time when you login
   ➢ source .bashrc

Opetion-II: (highly recommended)
At the prompt, type the following two commands:

   cd ~   <press Enter>
   gedit .profile <press Enter>

(hint: you can also use "vi .profile" to edit, if "gedit" doesn't work)

   An editor will open up and allow you to change the contents of a file called:
   the '.profile' file.

6. Scroll down to the bottom of the .profile file and add these lines to the bottom:

stty erase ^H
stty erase ^?

EDITOR=gedit
FCEDIT=gedit
VISUAL=gedit

export TIMEOUT=0
#--
CADENCE IC 6.1 Tools & SYNOPSYS Tools
#--
[[-e /apps/cadence/startup_scripts/virtuoso.env]] && \
   . /apps/cadence/startup_scripts/virtuoso.env
[[-e /apps/synopsys_2018/startup_scripts/synopsys.env]] && \
   . /apps/synopsys_2018/startup_scripts/synopsys.env

```
    NOTE: REMOVE any other lines in your profile that setup Cadnece or synopsys tools,
    they will interfere with the setup above.
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7. Press the "SAVE" button at the top of the screen and close the editor

8. The '.profile' file is executed every time you login to your workstation.
   To have the changes we just made take effect, log out of the workstation
   and then log back in now.
9. If you wish to use verilog, or simvision, simply type:
   ```
   $ cd cadence
   $ verilog your_verilog_file1.v your_verilog_file2.v
   $ simvision &
   ```