Assignment #0 – USB/dLife/SVN Setup & Testing

Individual Assignment:

1. Obtain a 8GB+ USB3 Thumb Drive that can be used exclusively for this course.

2. Erase and format the USB:
   • Use the “Disk Utility” in Applications/Utilities
   • Format the drive as MS-DOS FAT

3. Download the dLife.iso file from: https://db.tt/m3cVH9NB

5. Use unetbootin to make a bootable USB from the iso file
   a. Launch unetbootin from a terminal window with the command:
      • sudo /usr/bin/unetbootin.app/Contents/MacOS/unetbootin
      • Use your password when prompted.
   b. Click “Disk Image” and Choose the dLife.iso file you downloaded.
   c. Set the “Space used to preserve files across reboots” to 4096MB
   d. Be sure type is “USB Drive” and “Drive” is something like “/dev/disk1s1”
   e. Click “Ok” and wait.
      • File 247 takes a while – don’t worry it will finish!
      • When it finishes it will tell you that the USB will not “boot off of a Mac” – just ignore that – it’s lying!
   f. Open the USB and locate the file boot/grub/grub.cfg
   g. Open grub.cfg in the Text Edit application
   h. Insert the word “persistent” between “casper” and “quiet” in the block for “boot live system”.
      i. Save the grub.cfg file.

6. Verify that the USB can be used to boot an iMac in Tome231
   a. Restart while holding down the Option key
   b. Select the “EFI Boot” disk
   c. Select “Boot Live System” from the menu on the boot screen.
   d. Wait for Ubuntu to boot to a desktop.
Complete the remaining steps in Ubuntu.

7. Download and extract the dLife library:
   a. Download the dlife.zip folder from: https://db.tt/4F7TzrY4
   b. Unzip the dlife.zip file
   c. Move the resulting dLifeDist folder to your home directory.
      • Your home directory is: /home/student

8. Setup SVN in Eclipse:
   a. Run the Terminal application (the icon at the top left is a search tool)
      • You might want to lock the Terminal to the Launcher by right clicking it
        and selecting “Lock to Launcher” from “options”.
   b. Launch Eclipse using the command “eclipse” in the terminal.
      • Probably worth locking eclipse to the Launcher as well.
   c. Create an SVN repository location for:
      • svn://turing.dickinson.edu/CompSci
      • You’ll need your svn username and password.
        o Note: If you don’t remember how to work with SVN please see the
          “How-To” document on the COMP132 course page that is accessible
          from my home page.

9. Checkout your COMP203 project:
   a. Find your folder inside the SpecialTopics/COMP203F15 folder.
   b. Open your folder
   c. Checkout the COMP203 project that is inside your folder.
      • **Do not** check out the folder with your username!!

10. Test your COMP203 project:
    a. Run the program “dLifeTest.java” from the “test” package in the COMP203 project
       • If the COMP203 project has an “!” on it in Eclipse be sure that you have the
         dLifeDist folder in your home directory (See step #7).
       • A microworld with some dragons, rocks, cheese and poison should appear
         and a little robot should run around until it dies.
       • You don’t have to, but if you want to learn more about this simulation and
         play with it a bit you can:
         a. Open the index.html file in the dLifeDist/doc folder
         b. Look at the documentation for the dlife.models.simpleworld package.

11. Create a program and practice a commit to SVN:
    a. Create a new package named “hello” in the COMP203 project
    b. Create a class named “Hello” in the “hello” package.
    c. Write a main method in “Hello.java” that prints “Hello from Ubuntu!”
    d. Commit your changes to the COMP203 project to SVN.
Grading Rubric:

___ / 1  Bootable USB created.
___ / 2  USB boots Tome 231 iMac.
___ / 1  dLifeDist exists in robotics home directory on USB
___ / 1  SVN repository setup in eclipse
___ / 1  COMP203 project is checked out
___ / 1  COMP203 project compiles (dlife.jar added to buildpath)
___ / 1  Hello package and program created
___ / 2  Modified project committed to SVN

___ / 10  Total