

NXT-G & LabVIEW Installation

Description

Mindstorms (NXT-G) and LabVIEW are the two icon-based programming solutions available for the FTC, and are bundled together in the standard kit. This step-by-step guide goes through the process of installing either or both of the two programming softwares.

Minimum System Requirements

- Intel® Pentium® processor or compatible, 800 MHz
- Windows XP SP2+ or Windows Vista
- 256MB of RAM
- 2GB of available hard disk space (1.5 GB for LabVIEW, 500MB for NXT-G)
- XGA display (1024x768)
- 1 available USB port
- CD-ROM drive

Installing the Software

1. Mindstorms (NXT-G) and LabVIEW are bundled together in the FTC Kit. Open the packaging and insert the FIRST Tech Challenge Software 2009 Disk 1 into your CD-ROM drive, even if you only want to install one of the programming softwares.



Software Packaging

NXT-G and LabVIEW are installed using the same set of CD's.



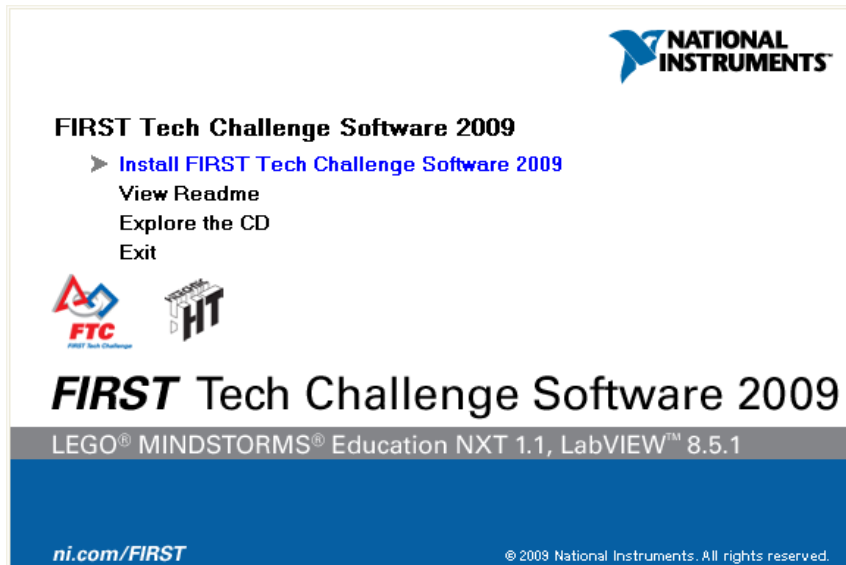
Insert Disk 1

Insert Disk 1 of the FIRST Tech Challenge Software 2009 into your CD-ROM.

FTC Getting Started



2. The FIRST Tech Challenge Software 2009 menu should appear. Select the option to “*Install FIRST Tech Challenge Software 2009*”. (If the menu failed to appear, navigate into your CD-ROM drive through *My Computer* and double-click the “*setup.exe*” file.)



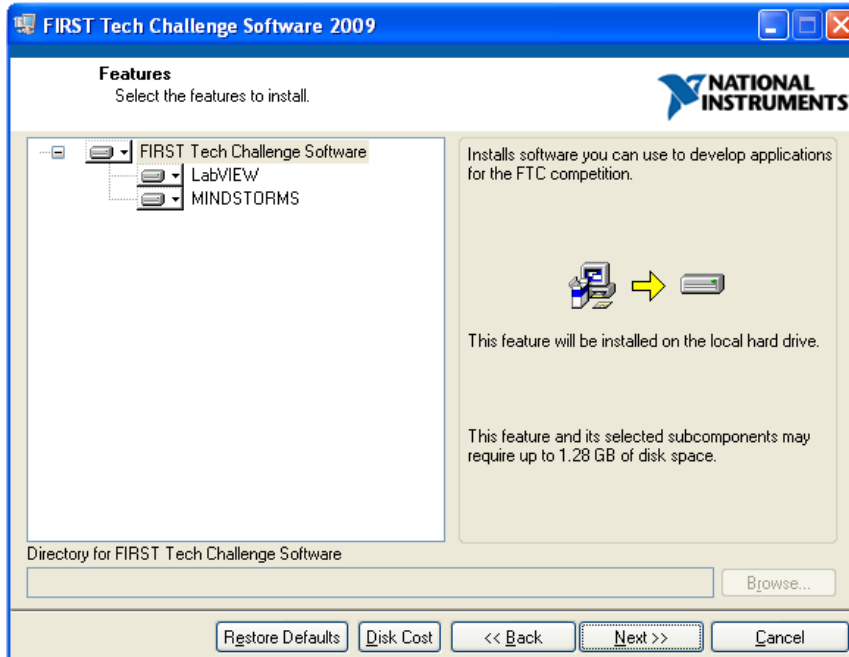
3. After the installer menu loads, press “*Next >>*”.



FTC Getting Started

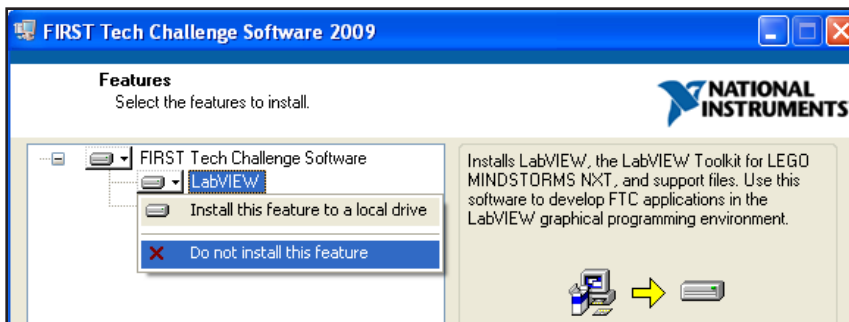


4. The “Features” section of the installer will appear. Here, you can choose to install Labview, Mindstorms (NXT-G), or both. Press “Next >>” after you’ve made your selection.



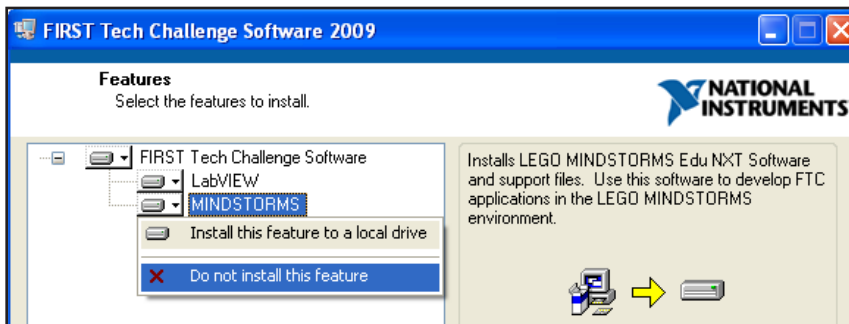
Default Software Selection

LabVIEW and NXT-G are both selected for installation by default. Press “Next >>” without making any changes to install both.



Mindstorms (NXT-G) Only

To install only Mindstorms (NXT-G), click on the icon next to *LabVIEW* and select “X Do not install this feature”.



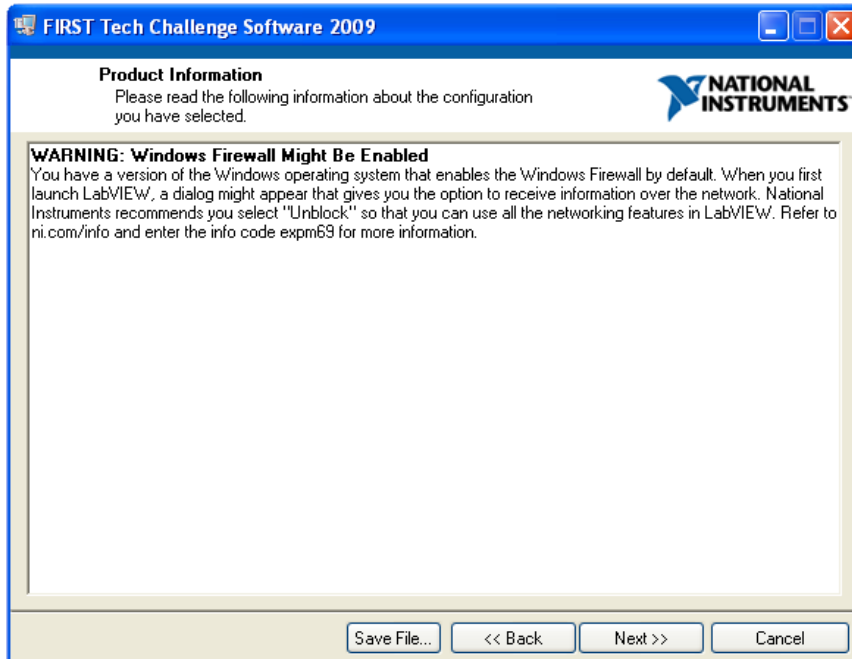
LabVIEW Only

To install only LabVIEW, click on the icon next to *MINDSTORMS* and select “X Do not install this feature”.

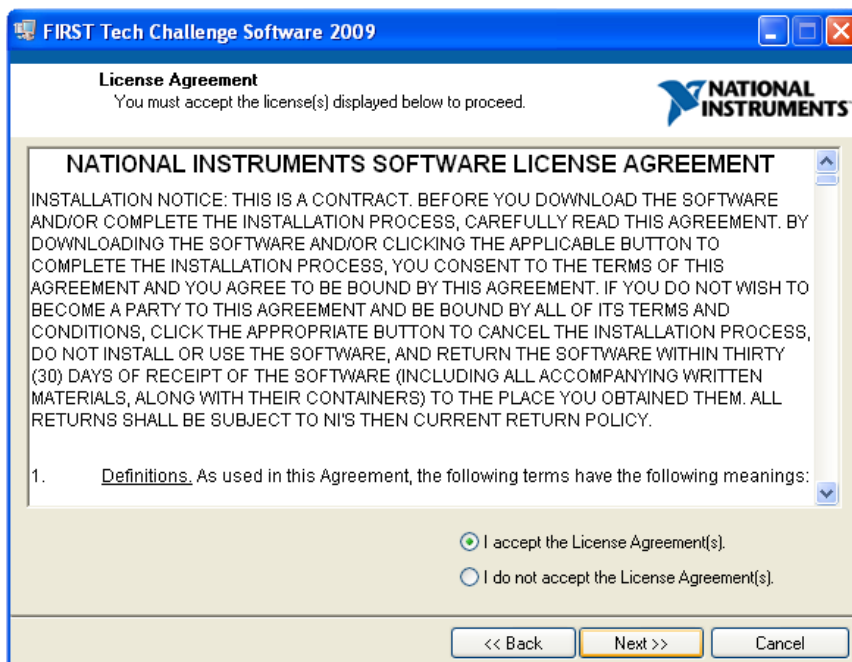
FTC Getting Started



5. A warning will appear, stating that you may have a firewall enabled on your computer. Follow the instructions in the warning if your firewall attempts to block LabVIEW. Press "Next >>".



6. A license agreement will appear. After reading through the document, select the radio button next to "I accept the License Agreement(s)" and press "Next >>".



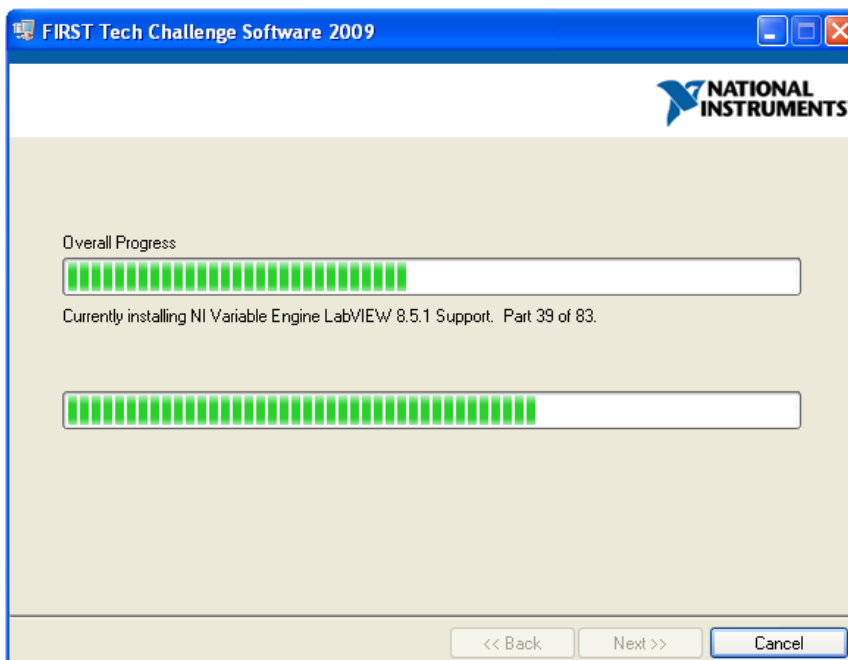
FTC Getting Started



7. Three more license agreements will appear. After reading through the documents, select the radio button next to "I accept the above 3 License Agreement(s)" and press "Next >>".



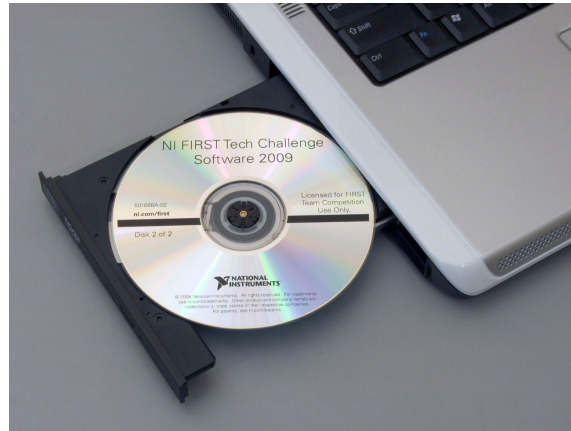
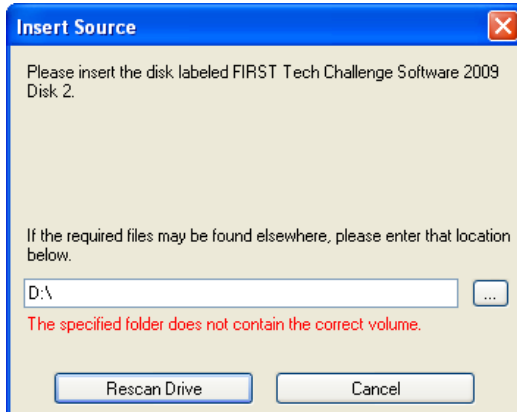
8. Two progress bars will appear, and the installation will start. Installation time will vary, based upon the speed of your computer, and which programming softwares you chose to install.



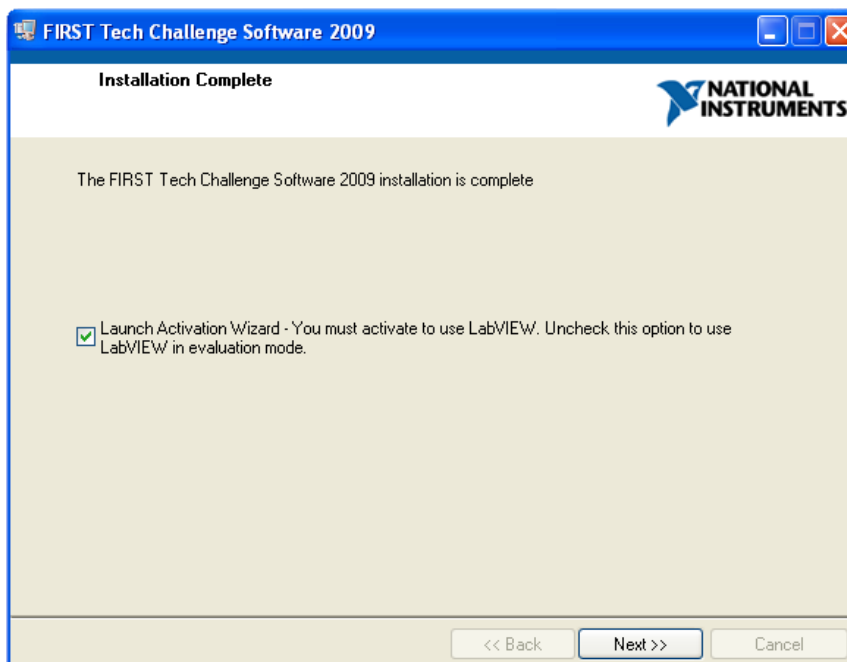
FTC Getting Started



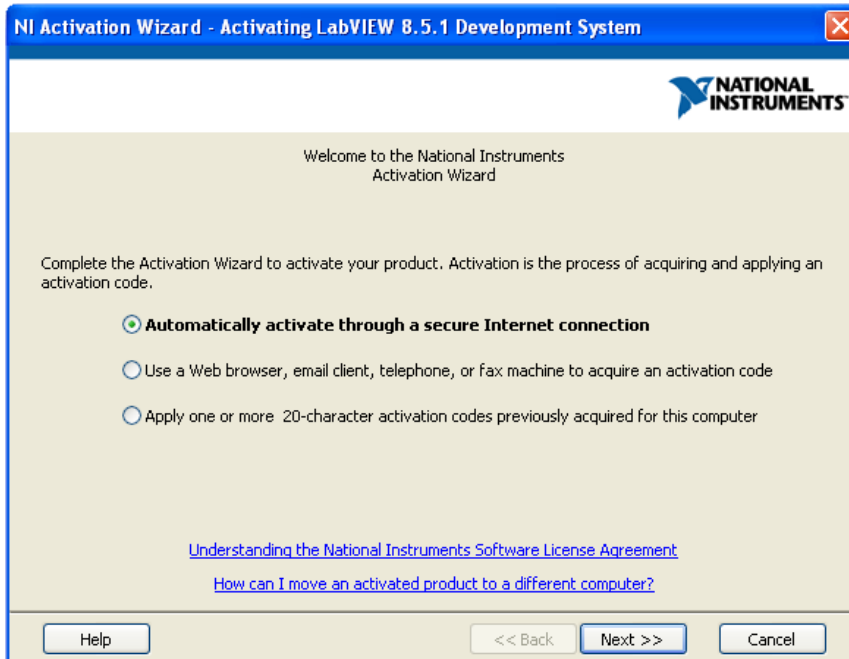
9. An “*Insert Source*” window will appear if you chose to install LabVIEW, asking for Disk 2. Place Disk 2 into your CD-ROM drive and select “*Rescan Drive*”. The installation will resume.



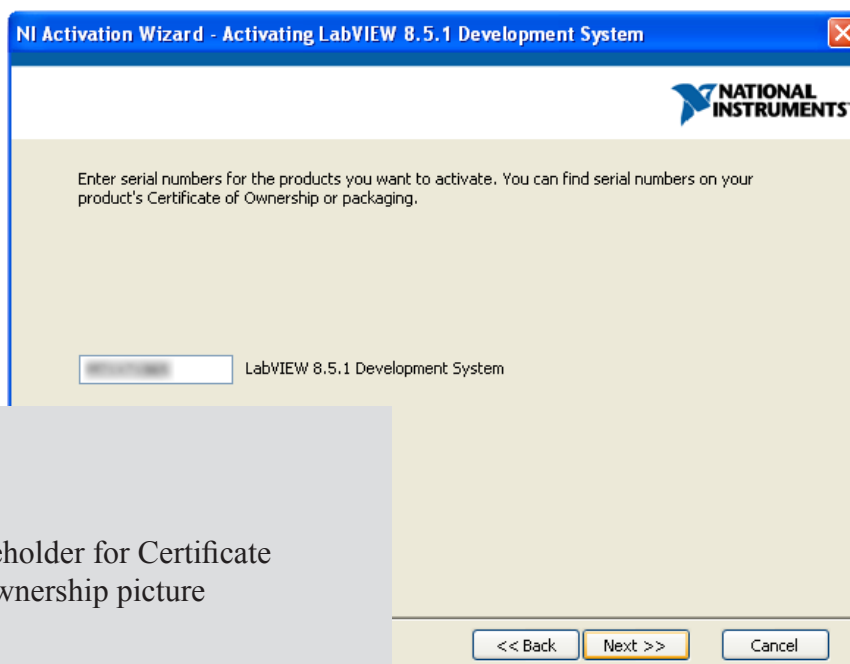
10. The “*Installation Complete*” section of the installer will appear after the install finishes. Keep the “*Launch Activation Wizard*” checkbox checked if you installed LabVIEW. **Uncheck it if you installed ONLY Mindstorms (NXT-G) and move on to Step 17.**



11. The activation window will appear. If your computer has an Internet connection, keep the first radio button selected and press "Next >>". If not, select one of the other two options and follow the on-screen instructions.



12. Enter your serial number in the space provided, just before the "Labview 8.5.1 Development System" text and press "Next >>". The serial number can be found on the *Certificate of Ownership*.



Placeholder for Certificate of Ownership picture

FTC Getting Started



13. Enter your information in the spaces provided. The portion below the “Register my product...” checkbox is optional. Uncheck the box if you wish to skip it. Click “Next >>”.

NI Activation Wizard - Activating LabVIEW 8.5.1 Development System

NATIONAL INSTRUMENTS

The following information is required to activate your products.

First Name Last Name Organization
Robotics Academy CMU

Register my product to ensure access to my service benefits from National Instruments, including technical support, software upgrades and updates.

Country United States

Address

Address (cont.)

City State Postal Code

Email Phone Fax

[National Instruments Product Activation Privacy Statement](#)

Help << Back Next >> Cancel

14. A window will appear, allowing you to request an e-mail confirmation of your activation. Check the checkbox and enter your e-mail address if you want to receive a confirmation. Click “Next >>”.

NI Activation Wizard - Activating LabVIEW 8.5.1 Development System

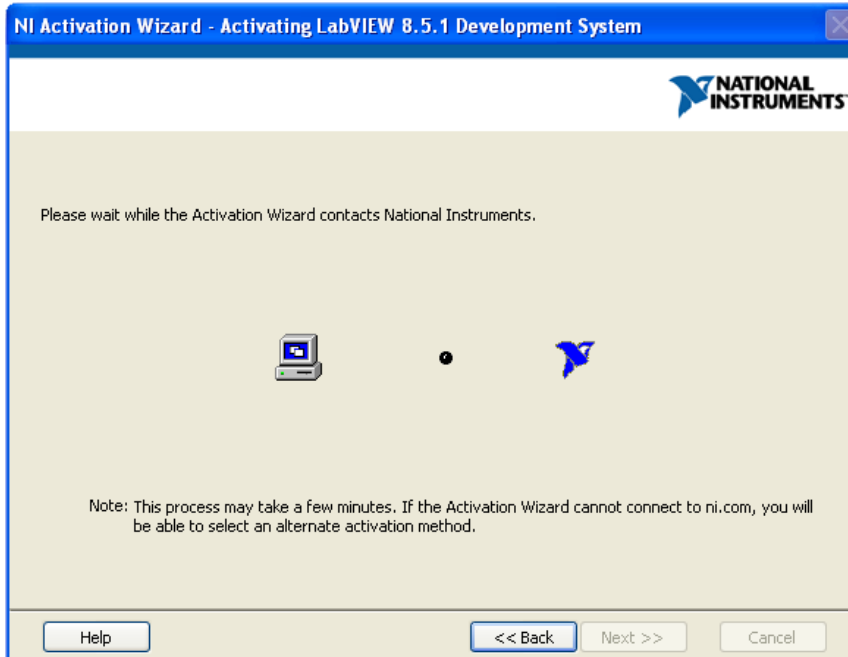
NATIONAL INSTRUMENTS

Send me an email confirmation of this activation.

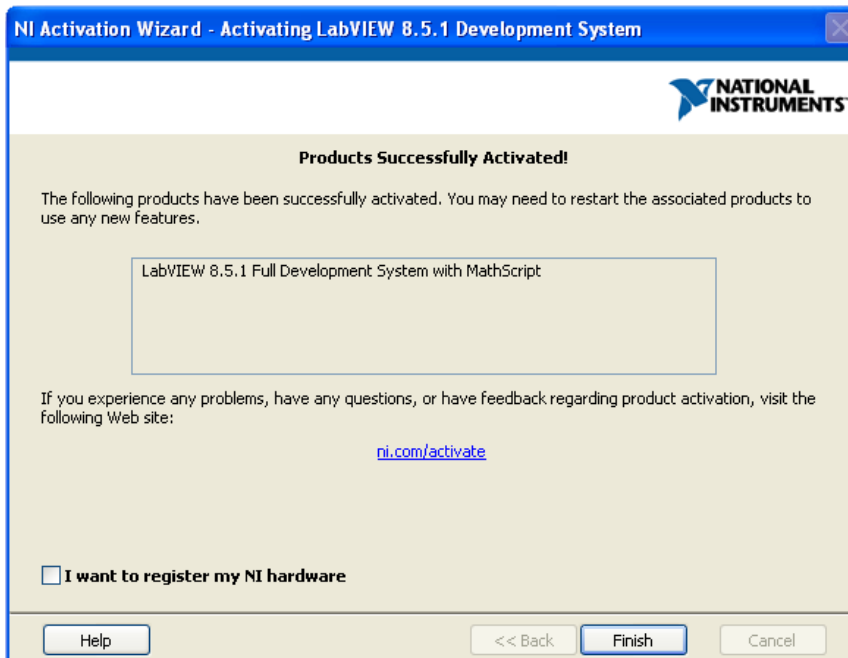
Email

Help << Back Next >> Cancel

15. The *Activation Wizard* will register your copy of LabVIEW. This process may take a few minutes. Press “*Next >>*”.



16. Press “*Finish*” to complete the LabVIEW registration.



17. The installer requires that your computer be restarted before you can run Mindstorms (NXT-G) or LabVIEW. Choose “Restart” to restart your computer immediately.



18. Once your computer has been restarted, the Mindstorms (NXT-G) and LabVIEW softwares are ready for use. Mindstorms (NXT-G) can be opened from your Desktop. Both softwares can be opened from your Start Menu, under Programs or All Programs.

