How to install all software necessary for getting and building code for FIRST Sparx Team 1126 Robot.

1. **Download the WPILib 2019.1.1 Kickoff Release here:**
   https://github.com/wpilibsuite/allwpilib/releases
   (pick WPILibInstaller_Windows32-2019.1.1.zip or WPILibInstaller_Windows64-2019.1.1.zip
2. Open the ZIP file, extract to a temp folder, then run installer
3. Let it download and install VS Code
   Note: you need to let this install a new copy of VS Code and configure it for this purpose even if you previously had VS Code installed

4. **Download the 2019 FRC Update Suite here:**
   http://download.ni.com/support/softlib/first/frc/FileAttachments/FRCUpdateSuite_2019.0.0.zip
5. Install it with default options

6. **Download and Install the command line GIT client from here:**
   https://git-scm.com/download/win

7. **Download and Install the CTRE Phoenix Framework v5.12.0.1 from here:**
   http://www.ctr-electronics.com/hro.html#product_tabs_technical_resources

8. **Download and Install the National Instruments Robo RIO driver from here:**
   http://www.ni.com/download/first-robotics-software-2017/7904/en
9. Reboot the computer
10. Run VS Code from its "FRC VS Code 2019" icon
11. Connect VS Code to the Sparx GIT archive and "git" the code
    a. Ctrl-Shift-P
    b. Type "Clone"
    c. Paste in the URL of the Sparx 1126 GIT archive:
       https://github.com/Sparx-Robotics-1126/2019-Season
    d. Click the "Fork" icon (along left side panel)
    e. Click on "3-dot" menu button and select "Pull"
    f. Click the "W" Circle icon
    g. Select command: "Build Robot Code" (upper right corner)
12. Make sure the build completes with no errors

Additional Tests:

Open file Robot.java
add class variables:

```
WPI_TalonSRX foo;
AHRS bar;
```

Try to compile with these. If it compiles, it proves the NI and CTRE drivers got installed successfully.