* **Tools**

These are the tool which we have used to build the msi installer.

* WiX Toolset
* Jdk 8.
* **Environment Variables**

You need to set the path environment variable with WiX Toolset path for compiling and linking your code.

* In **Start**, search for **Control Panel** and then select it.
* Click the **Advanced system settings** link.
* Click **Environment Variables.** In the section **System Variables,** find the PATH environment variable and select it. Click **Edit**. If the PATH environment variable does not exist, click **New.**
* In the **Edit System Variable** (or **New System Variable**) window, specify the value of the PATH environment variable <Path to WiX Toolset\bin>. Click **OK**. Close all remaining windows by clicking **OK**.
* Reopen Command prompt window, and run your code.
* **Build**

To build your code, just run the setup\_make( /installer/Windows/WIX/) file. Options that are availalble while building this MSI package are:

-p : Specify the path to the base folder of the source. Absolute paths can be used.

-v : Specify the ProductVersion.

Examplle: setup\_make.bat -v 3.5.1.0 -p ..\

Once the build is successful it will create .msi file in /Windows/build folder.

Run this .msi file for installation.

* **Description of code files**

To build an MSI , the compiler processes the source files (.wxs , .wxl and .wxi) and produces object files (.wixobj). These objects files are then consumed by the linker, which produces Windows Installer file(.msi).

* **BuildVars.wxi :** This BuildVars.wxi file is same as .h files for C/C++. In this file we have defined macros, which is used in another files by including with the <? include BuildVars.wxi ?> element.
* **setup.wxs :** This setup.wxs is the top level source file, which contains the product information, structure for the installation, actual components, features, custom actions and properties.
* **UserInterface.wxs :** This file contains the information related to each dialog page.
* **ProgressText.wxs :** This file contains all the timing relative actions for InstallExecuteSequence, InstallUISequence, AdminExecuteSequence and AdminUISequence.
* **ErrorText.wxs :** This file contains the information about the errors.
* **Common.wxs :** This file contains the commonly used UI text.
* **English-US.wxl :** This English-US.wxl file contains the set of strings used for localizing a product into a specified culture.
* **setup\_make.bat :** This file is used for building setup.msi
* **Logging**

For creating an installation log, you can use a command line which looks like this:

msiexec /i "<PathToPackage>\Example.msi" /L\*V "C:\log\example.log"