**Pre requisite -----**

1. Java
2. IDE
3. Appium Client
4. SDK
5. NODE.JS (Appium is a node module)
6. Appium Server (through npm)
7. Emulator(need android studio), Physical or cloud device

**Android --**

1. Java installed and working
   * Java -version
   * Javac -version
   * Where java
2. Install Android Studio
3. Navigate to AppData folder, AppData is hidden folder present under user\Gour\,

Then navigate to \\AppData\Local\Android\Sdk folder,

1. Set environment System variable Android\_Home to SDK location
2. Open Android Studio and create a sample project, Tools->AVD Manager and SDK Manager will be visible after that.
3. After package downloaded, click on Tools->SDK manager -> SDK Tools
4. Uncheck Hide obsolete Packages at bottom
5. Select Android SDK Tools(obsolete) then Apply
6. Set another set of environment System variable path to %ANDROID\_HOME%/tools/bin, %ANDROID\_HOME%/tools, %ANDROID\_HOME%/platform-tools
7. Open Android studio and create AVD Device/ Emulator
   * Click on Tools->AVD Manager
   * Create new device
   * Select screen type -> Next
   * Select OS -> next (if OS not available then download)
   * Provide name, change advance setting if needed then click next,
   * It’s Done
8. Open the AVD or emulator
   * Open Android studio->tools->AVD manager -> start Emulator
   * Invoke the Emulator from CMD directly, navigate to folder android/sdk/emulator then type command emulator -avd <device name>
9. Download Node.js, as Appium runs as node module
   * node --version, npm --version
   * where node, where npm
10. Setup Environment System variable for NODE\_HOME to Program Files\nodejs
11. Set Environment System variable path to NPM/bin

Node.js is a software inside that npm is present, npm is a command line installer. All the node modules (i.e. Appium, protractor are node modules) need to install through npm command.

1. Install Appium server, cmd-> npm install -g Appium
   * appium --version/-v
   * where appium
2. Start the server by typing command Appium, as we declared it globally by -g while installing.
3. Add Appium client dependency at project,

**All set to go !!!**

To Install a specific version through npm **-> npm install -g appium@version\_deatails**

**Diagnose Appium -----**

Appium-Doctor is also a node module, need to install through npm,

* npm install appium-doctor -g

attempts to fix and diagnose common node, IOS and Android configuration issues before starting Appium.

* Appium-doctor -h

**Uninstallation Appium ------**

All the s/w or module installed through npm, need to uninstall through npm only.

* npm uninstall -g appium

**XCUITest –** for IOS devices, beginning with iOS 9.3, For iOS 10 and up this is only supported framework from Apple.

For iOS 9.2 and below, Apple's only automation technology was called **UIAutomation**.

**UIAutomator2** – for Android from Android 6.0 onwards.

UIAutomator- This framework requires Android 4.3 (API level 18) or higher.

**Windows** - Microsoft put together an Appium-compatible server called [WinAppDriver](https://github.com/microsoft/WinAppDriver), and this is the driver that connects it up with the main Appium server. You can use this driver to automate Windows apps!