Selenium Web Driver: Steps Installation Guide for Mobile Real Device Testing:

Step by Step Instructions to Configure and run Mobile Automation Test cases using Appium on real devices

* Download latest **Java SDK** and set **Java\_Home** and set in path the bin location, in environmental variables
* Download **Android STUDIO** **SDK** from below link
  + <https://developer.android.com/studio/index.html>
  + Add following location to path variable:
    - C:\Users\lenovo\AppData\Local\Android\sdk\tools\bin
    - C:\Users\lenovo\AppData\Local\Android\sdk\platform-tools
    - C:\Users\lenovo\AppData\Local\Android\sdk
* Check Android installation:
  + Set Android\_Home Environmental variables path to SDK location and include bin folder paths in PATH variable: C:\Users\lenovo\AppData\Local\Android\sdk
* Download Node.js
  + <https://nodejs.org/en/download/>
  + Set Node\_Home Environmental variables path
* Debug level settings on **real device smart phone**:
  + Mobile -> Settings -> Build Number (7 taps)
  + Switch on USB debugging option
* Update the SDK version installed from your SDK Manager according to your phone Android version (about phone):
  + C:\Program Files (x86)\Android\android-sdk\ SDK Manager.exe
* Install Eclipse – Create a Project in Eclipse - configure Appium libraries
* Install Eclipse android plugin – install – ADT plugin (in Eclipse: Help -> Install New Software)
  + <https://dl-ssl.google.com/android/eclipse/>
  + After restart eclipse goto, Windows -> Preferences, in Android setting give the path to the SDK folder.
  + Load the DDMS perspective in the Eclipse.
* Install PDAnet application on your device and in your test environment before connect your phone to the pc.
* Download Appium and Selenium Java client library
* Connect your phone and approve message for connecting first time.