**Install java**

$sudo apt install default-jre

**Install Android SDK**

$sudo apt install adb

**Install ruby**

$sudo apt-get install build-essential curl git m4 ruby texinfo libbz2-dev libcurl4-openssl-dev libexpat-dev libncurses-dev zlib1g-dev

**Install linuxbrew**

$ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Linuxbrew/install/master/install)"

* **press enter**

**Setup path for linuxbrew in .bashrc**

export PATH=”$HOME/.linuxbrew/bin:$PATH”

export MANPATH=”$HOME/.linuxbrew/share/man:$MANPATH”

export INFOPATH=”$HOME/.linuxbrew/share/info:$INFOPATH”

**Install linuxbrew-wrapper**

$sudo apt install linuxbrew-wrapper

**Brew installation**

$brew update

$brew install node

$brew link node

**Download android SDK tools and unzip**

$wget <https://dl.google.com/android/repository/sdk-tools-linux-3859397.zip>

$unzip sdk-tools-linux-3859397.zip

sudo mv tools ../../usr/lib/android-sdk

**Add $JAVA\_HOME to PATH**

$vi ~/.bashrc

export JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64

export PATH=$PATH:$JAVA\_HOME:$JAVA\_HOME/bin

**Add $ANDROID\_HOME to PATH**

$vi ~/.bashrc

export ANDROID\_HOME=/usr/lib/android-sdk

export PATH=$PATH:$ANDROID\_HOME/tools:$ANDROID\_HOME/platform-tools

**Appium installation**

$npm install -g appium

$npm install wd

**Install Appium library for robot framework**

$pip install robotframework-appiumlibrary

**REQUIREMENTS**

* API >= 17

**USEFUL COMMANDS**

* $./emulator -list-avds *lists all available devices*
* $adb devices *lists all available/connected devices*
* $and shell switches to root
* $dumpsys | grep -E ‘mCurrentFocus’ *lists appPackage followed by appActivity*
* $netstat -an | grep 4723 *checks if appium is running*

**deviceName** - type $adb devices to get the name of the device to test

**platformVersion** - $./avdmanager list to get the Android Version

**Test Case - check BT/Wi-Fi status**

Preconditions:

* appium running
* avd running
* UI Automator Viewer running (/usr/lib/android-sdk/tools/bin)
* AppiumLibrary installed

Steps:

* Open Application **Settings**
* Tap **Wi-Fi/BT button**
* Get Text **get Wi-Fi/BT text**
* Log