Section 3

- Lecture 6 Android Studio
    - https://developer.android.com/studio
    - Move extracted android studio to path:
        - mv <download path> <destination path>
    - Run android studio:
    - Go to <destination path> and run: ./studio.sh
- Lecture 9 ADB
    - Go to adb shell path:
        - cd <home>/Android/Sdk/platform-tools
    - Run adb shell:
        - adb shell
- Lecture 10 Apktool
    - Install apktool
        - sudo apt-get install apktool
- Lecture 11 JD-GUI/Enjarify
    - http://java-decompiler.github.io/
    - https://github.com/google/enjarify
    - Run jdgui:
        - java -jar <path to jdgui>
    - Run enjarify on apk:
        - ./enjarify.sh <path to apk>
- Lecture 12 Bytecodeviewer
    - https://bytecodeviewer.com/
- Lecture 13 Androguard
    - Install androguard
        - sudo apt install androguard
- Lecture 14 Objection
    - https://github.com/sensepost/objection
    - Pre-requisites:
        - sudo apt install zipalign
        - https://ibotpeaches.github.io/Apktool/
        - Follow installation instructions
    - Install objection
        - pip3 install -U objection
- Lecture 15 Tamer
    - https://androidtamer.com/

- General: make sure you have your environment variables configured for:
    - Jdk bin
    - Sdk platform tools path (Android/Sdk/platform-tools)
    - Sdk tools path (Android/Sdk/tools)
    - Sdk emulator path (Android/Sdk/emulator)
    - Path to apktool
    - Path to objection (should be done automatically with objection install script)

Section 5

- Lecture 32 ADB
    - adb commands
        - adb devices
        - touch myfile.txt
        - adb push myfile.txt /sdcard/
        - adb pull /sdcard/myfile.txt
        - adb shell
            - pm list package
            - pm list package | grep flipcortex
            - exit
    - Download apk extractor
        - Eg: https://m.apkpure.com/apk-extractor/com.ext.ui
    - Drag and drop onto emulator
    - Extract APK
    - Pull apk
        - Adb pull <path to extracted apk>
        - Eg:
          adb pull
          /storage/emulated/0/ExtractedApks/Helloworld_com.flipcortex.helloworld.apk
- Lecture 33 Static Analysis: APKtool
    - Rename apk to flipcortex.apk
        - mv <apk path> flipcortex.apk
    - Run apktool on app
        - apktool d flipcortex.apk
    - Open manifest/layout
        - cd flipcortex
        - nano AndroidManifest.xml
        - nano /res/layout/activity_main
    - Find postman-echo
        - grep -r postman-echo
- Lecture 34 Static Analysis: Bytecodeviewer
    - Run bytecodeviewer
    - java -jar <path to bytecodeviewer)
- Lecture 35 Static Analysis: Androguard
    - Run apk on androguard

        - androguard analyze flipcortex.apk
    - Run analysis commands
        - a.get_permissions()
        - a.get_receivers()
- Lecture 36 Dynamic Analysis: Objection
    - Run objection against app
        - objection patchapk --source <path to apk> --gadget-version 12.7.24
    - Install new apk
        - adb install <path to new generated apk>
    - Run app
    - Run objection
        - Objection explort
    - Hook onto method
        - android hooking watch class_method com.flipcortex.helloworld.SmsReceiver.httpPost --dump-args --dump-backtrace --dump-return
    - Send sms to analysis device

Section 6

- Lecture 42 Simplocker: Running on Emulator
    - DISABLE NETWORK
    - Run emaultor
        - Go to Android/Sdk/emulator
        - ./emulator <name of emulator>
    - Enable SD card
    - Pull image
        - adb pull /sdcard/Pictures/DemoPicture.jpg
    - DISABLE NETWORK
    - Install simplocker
        - adb install <path to simplocker>
    - Uninstall simplocker
        - adb uninstall org.simplelocker
    - Pull encrypted file
        - adb pull /sdcard/Pictures/DemoPicture.jpg.enc
- Lecture 43 Simplocker: Static Analysis
    - Run enjarify on app
        - cd <enjarify path>
        - ./enjarify.sh <path to simplocker>