

190h-1d-Android-Test-Environment-v1-YY-2023-8-4.odp

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Install Android Studio on Ubuntu 18.04 (9/15-8/3/2023)

nnn-n-Android-Development-HelloWorld-Calculator-v2-XW-2023-7-7.odt

1. Check Java version

```
nicole@nicole-GS65:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu118.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu118.04.1, mixed mode, sharing)
nicole@nicole-GS65:~$
```

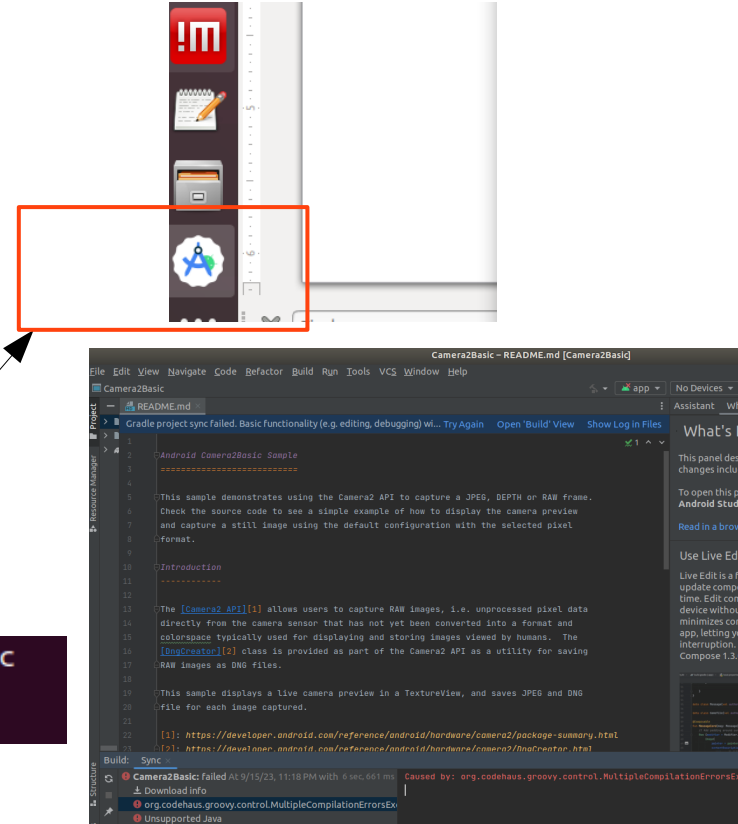
2. Install Android Studio using snap

```
$ snap find "android-studio"
$ sudo snap install android-studio --classic
```

```
nicole@nicole-GS65: ~
File Edit View Search Terminal Help
nicole@nicole-GS65:~$ snap find "android-studio"
Name                Version      Publisher    Notes    Summary
android-studio      2022.2.1.19 snapcrafters classic  The IDE for Android
android-studio-canary 2022.1.1.7  snapcrafters classic  The IDE for Android
(Canary build)
nicole@nicole-GS65:~$ sudo snap install android-studio --classic
```

```
(base) harry@harrys-gpu-laptop:~$ sudo snap install android-studio --classic
[sudo] password for harry:
android-studio 2022.3.1.18 from Snapcrafters🌟 installed
```

3. Once installed, double click the icon to start the studio





Execute Sample (W100) Android App on Virtual Android (8/3/2023)

1. Open the W100 Android App project
2. In the tool bar, choose Run - Run
3. Click edit configuration
4. Click Add new run configuration

Add new run configuration...
or select run configuration to edit

5. Choose Others - Android App
Name: W100

6. Click Apply button

7. In the tool bar, choose Run - Run again

Click Run button, even "Module not specified" error will be shown at the first time.

8. After build finish, the error below will be displayed

Error while waiting for device: /dev/kvm device: permission denied.

Execute the command below in a terminal;
\$ sudo usermod -aG kvm \$LOGNAME

9. In the tool bar, choose Run - Run again

Note: If you face the error like below, you may need more RAM or to close other applications
Error while Launching activity Failed to launch an application on all devices



Execute W100 Android App on Real Android Phone (8/3/2023)

<https://developer.android.com/studio/run/device>

1. On the device, open the Settings app, select “Developer options”, and then enable “USB debugging” and “Install via USB” (if applicable) **“Install via USB” requires SIM card, contract is not required.**

Note: If you don't see Developer options, follow the instructions to enable developer options.
<https://developer.android.com/studio/debug/dev-options>

Just search “SmartphoneName Developer options” on the internet

2. Set up your system to detect your device. Add login user to “plugdev” group, execute the command below;
`$ sudo usermod -aG plugdev $LOGNAME`

3. Logout and relogin

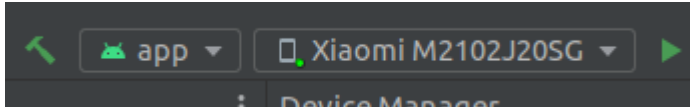
4. To check if login user is in “plugdev”, execute the command below;
`$ id`

5. Install android-sdk-platform-tools-common package
`$ sudo apt-get install android-sdk-platform-tools-common`
Error while Launching activity Failed to launch an application on all devices

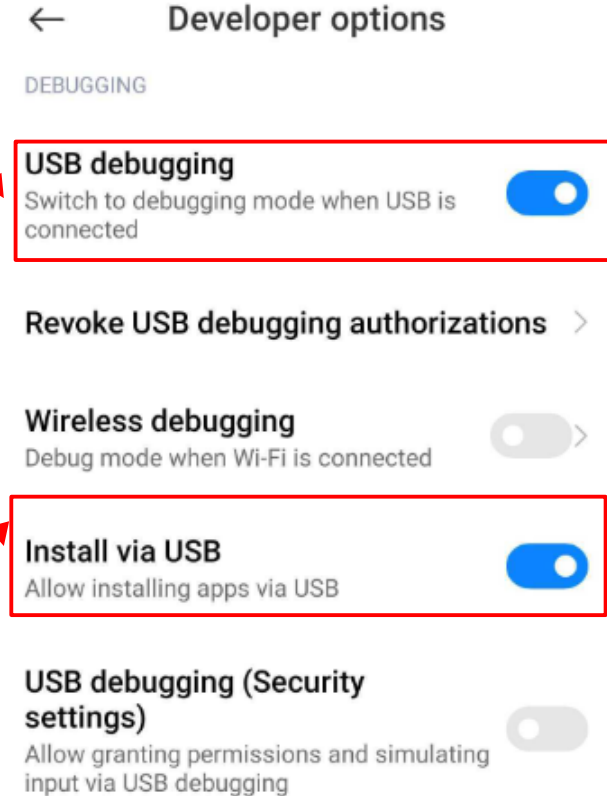
6. Connect the device using USB cable
Tap “File Transfer/Android Auto” on the Android phone
Tap “Allow USB Debugging” on the Android phone

7. Start Android Studio

8. Choose the real Android phone and Run the app



Tap “Install via USB” on the Android phone

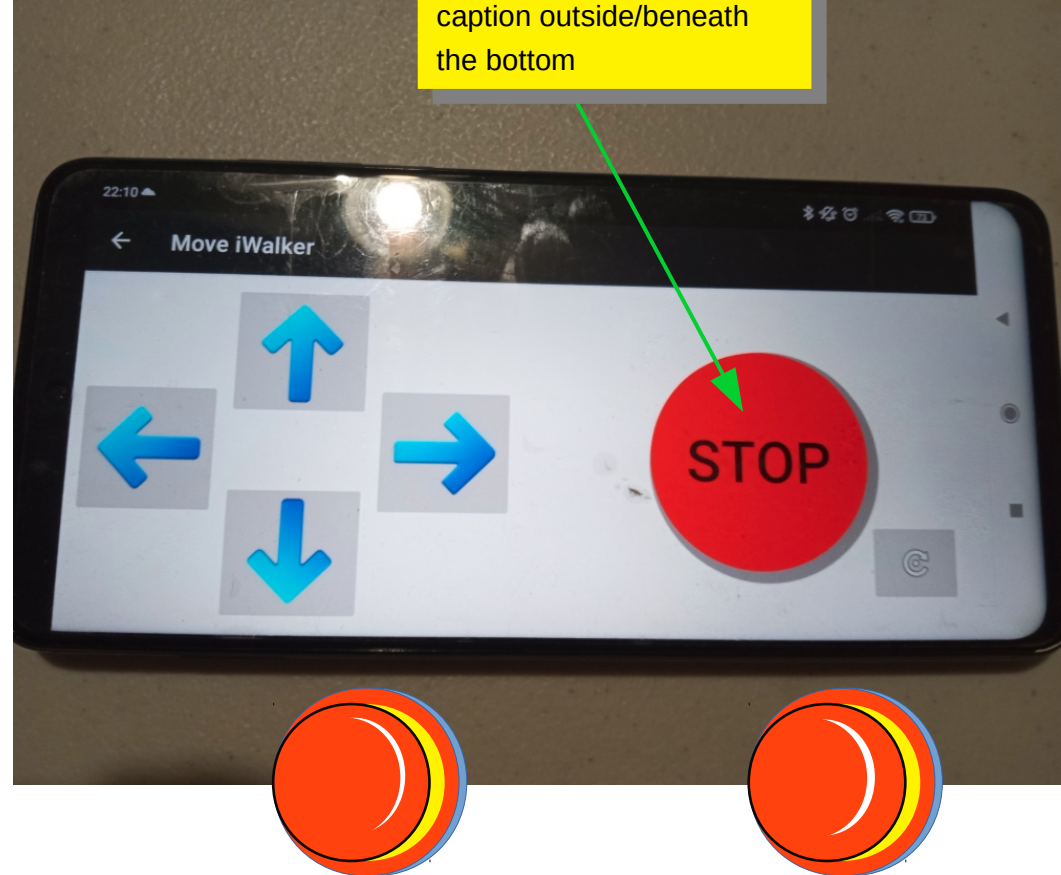
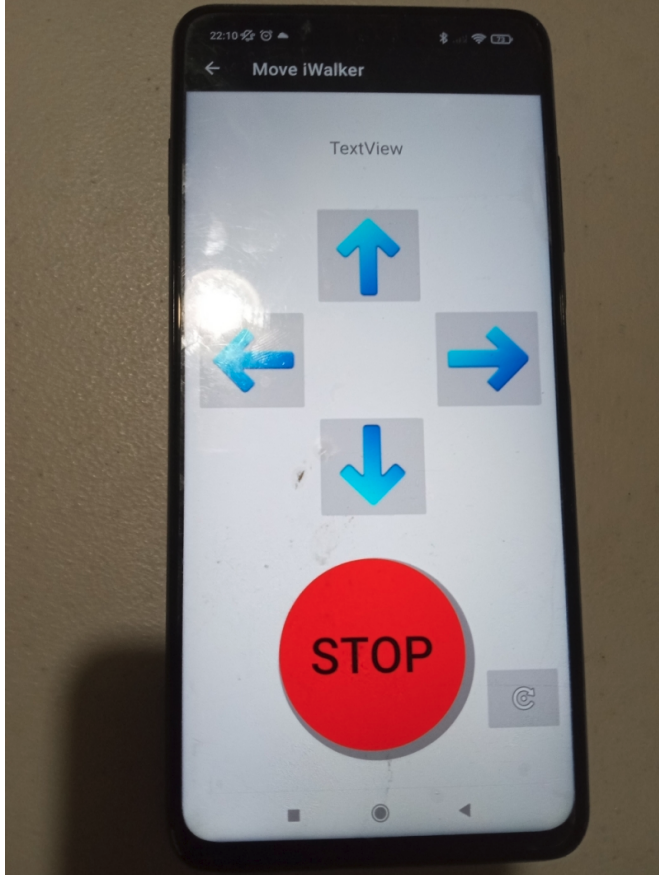




Execute W100 Android App on Real Android Phone Using Firebase Test Lab (8/3/2023)

<https://firebase.google.com/docs/test-lab/>

HL: 2023-9-15: Change the bottom and move the caption outside/beneath the bottom





Execute W100 Android App on Real Android Phone Using Firebase Test Lab (8/3/2023)

<https://firebase.google.com/docs/test-lab/>

Firebase Test Lab

Test your app on devices hosted in a Google data center.

Firebase Test Lab is a cloud-based app testing infrastructure that lets you test your app on a range of devices and configurations, so you can get a better idea of how it'll perform in the hands of live users.

[Run a test](#)

For instructions about running tests with Test Lab, visit our Getting Started guides:

[Android](#)

[iOS](#)



Android Studio Tips (8/9/2023)

1. Changing font size with Ctrl + Mouse Wheel

File → Settings → Editor → General : Check in “Change font size with Ctrl + Mouse Wheel in”, Click “OK”

