

Completion: Required

Submission: Required

Last Name: _____

First Name: _____

This *tutorial* is to familiarize you with the process of running a developed Kivy App on a real Android phone.

1) How and what to submit?

*Submit the following (upload in Blackboard to the available container) in **"one"** PDF document (not in docx or any other format):*

- i) The certification page (see next page) should be the first page, followed by*
- ii) your solution to the problems given on this assignment.*

One way is to copy the certification page and your solution to the problems into a Word document and then save the Word document as PDF, and upload the PDF version (not docx version). Only the PDF version will be graded.

2) Only ONE upload attempt is allowed: *Before submitting a document through Blackboard, you should review the document being uploaded to make sure that you are uploading the correct document (e.g. do not upload the assignment belonging to another course). To help you prevent uploading wrong documents, notes (titled **"HelpOnSubmissionThroughBlackboard"** on how to save & review drafts before final submission have been uploaded under Reference Material folder.*

Certification Page

This page must be the first page of your uploaded document.

Your assignment will not be graded without this page (completed with your full name in the area provided) as the first page of your uploaded document.

I, _____, certify that the work I am uploading represents my own efforts, and is not copied from anyone else or any other resource (such as Internet). *Furthermore, I certify that I have not let anyone copy from my work.*

Tutorial Portion

Learning Objectives!

This tutorial is to familiarize you with the process of running a developed Kivy App on a real Android phone.

Below is a video for your reference:

https://www.youtube.com/watch?v=WfMrZ_-0yGg

Below is a summary of the sections in this tutorial:

Section 1: Installing *Kivy Launcher* on your Android phone

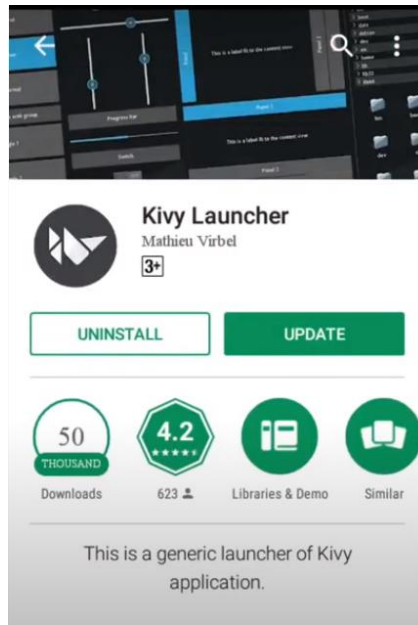
Sections 2, 3 and 4: Preparing the Android App on your computer for transferring it to the phone

Sections 5, 6 and 7: Connecting your computer to your Android phone and transferring the prepared App from the computer to the phone

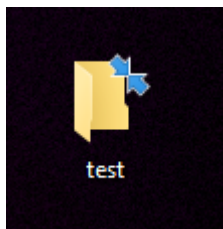
Section 8: Testing your App on your phone

Testing Your Kivy App on Android

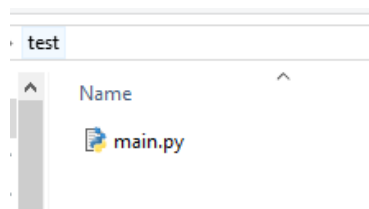
1. On your Android phone, **open** the *play store* and **download *Kivy Launcher***:



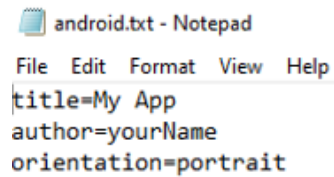
2. While the app is installing, prepare your Android app on your computer. Create a folder called **test** on your computer desktop.



3. **Drag & drop** your **.py** kivy app into this folder, and rename the **.py** Kivy file to **main.py**:



4. In this same **test** folder, create a txt file (e.g. using Notepad) with contents shown below and name the txt file as **android.txt** (*Hint: To do this, right click anywhere inside the folder, click new, then click Text Document and insert the desired text*):

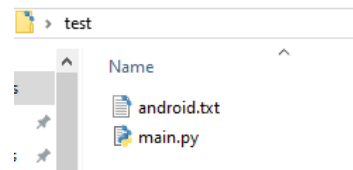


```
android.txt - Notepad
File Edit Format View Help
title=My App
author=yourName
orientation=portrait
```

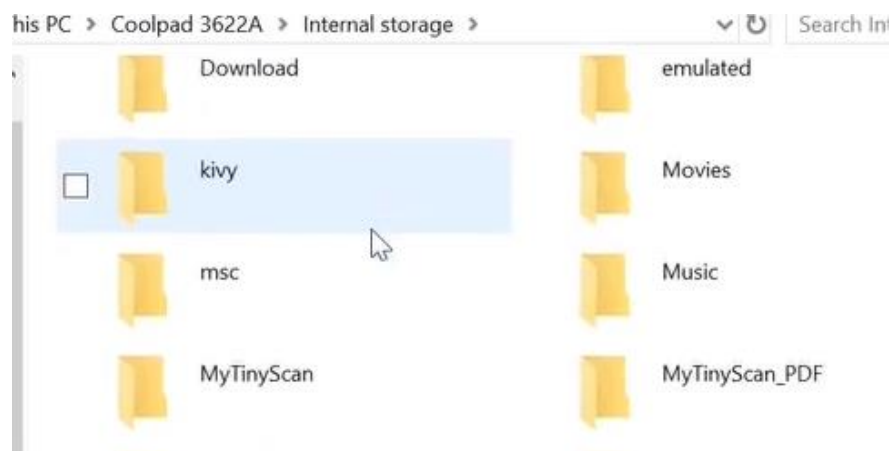
You should have now the following two files in your **test** folder:



5. Connect your Android phone to your computer, press **Windows key + E** (⊞ + E) to open the file explorer to find your Android device's internal storage (*Hint: Use a real USB data cable... not the one which is only meant for charging... the charging cable usually has two wires meant only for charging, missing the additional two wires for data transfer*):



6. Create a folder, named **kivy**, on your phone's internal storage:



7. Drag & drop your **test** folder containing **main.py** and **android.txt** from your computer into your **kivy** folder of Android:



8. On your android phone, launch **Kivy Launcher**. You should now see **My App** as an option. Click on **My App** to test it.