**lac\_batch.sh**

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| synopsis | **./lac\_batch.sh [ <gmail> <gpassword> minus**  **| <./minus/laXX> install**  **| <package-name> <app-email> <app-password> clean**  **| pull**  **| uninstall**  **| <./minus/laXX> remove ]** |
| description | when users uninstall apps on their android phones, they may have forgotten to delete their user accounts for those apps,  the script can help to automatically cleanup those accounts, it also other functions to manage apk files |
| options | minus  see minus\_operation.sh  <gmail>  google email address to login play store  <gpassword>  google password to login play store  install  automatically searching the play store for packages provided in <./minus/laXX> and install them on android phone  <./minus/laXX>  a text file which contains a list of android package names  clean  given <app-email> and <app-password>, this will automatically delete the user account on a given <package-name>  <package-name>  the package-name of an app currently residing on android phone  <app-email>  the email that user has provided when signing up with an app on android phone  <app-password>  the password that user has provided when signing up with an app on android phone  pull  see pm.sh  uninstall  see pm.sh  remove  remove all log directories *\_out* and *\_err*, ready for the next batch  <./minus/laXX>  a text file which contains a list of android package names |
| dependencies | minus\_operation.sh  gsplit  store.py  dos2unix  adb  grep  lac\_adf.sh  cleanup.py |
| packages | lai\_web  lai |
| notes | appium is required to run the script |
| examples | **A screenshot of a cell phone  Description automatically generated**  **A screenshot of a social media post  Description automatically generated** |

**minus\_operation.sh**

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| synopsis | **./minus\_operation.sh <gmail> <gpassword>** |
| description | auto login google play store website (*My apps* page) and calculate the difference between all the android packages listed there versus all the android packages listed in the mobile phone |
| options | <gmail>  google email address to login play store  <gpassword>  google password to login play store |
| dependencies | my\_apps.py  awk  dos2unix |
| packages | lai\_web |
| notes | a compatible *chromedriver* is required for using with Chrome web browser |
| examples | **A close up of a logo  Description automatically generated**  **A screenshot of a cell phone  Description automatically generated** |