

to do

Description

Category Warmups

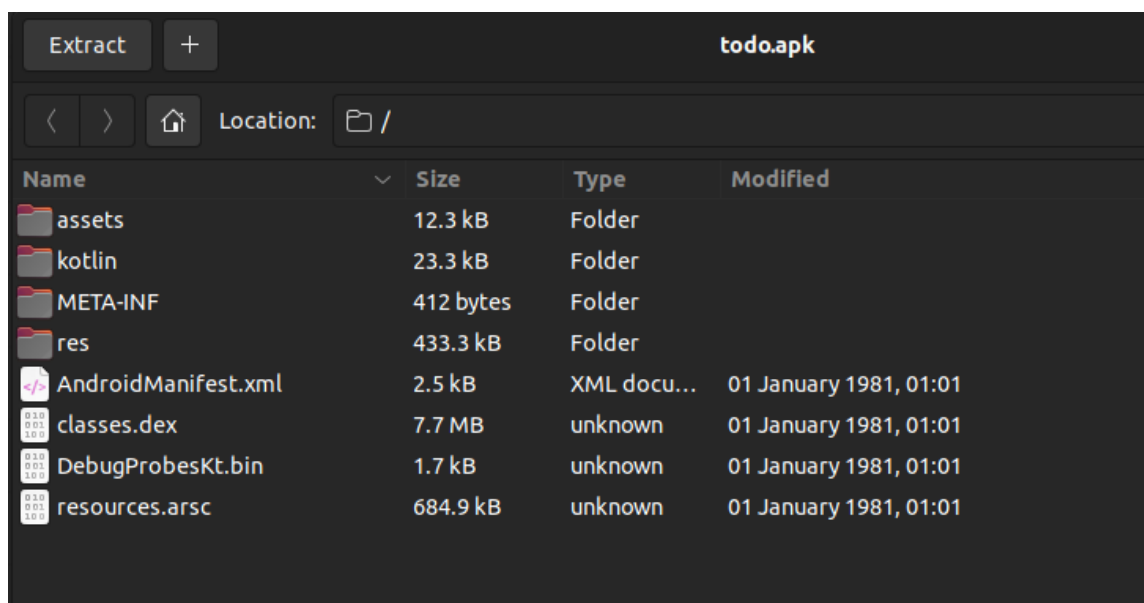
"I made my own app to remind me of all the things I need to do"

We get a apk file called todo to download. Let's investigate the file type.

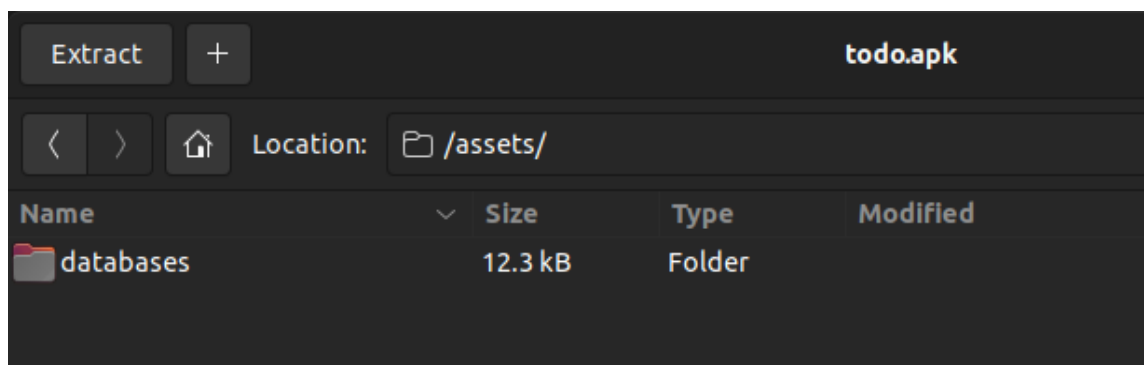
```
$file todo.apk
todo.apk: Zip archive data, at least v0.0 to extract
```

It is a readable zip file that relates to mobile/cell phone structure. From lifewire.com, they say "A file with the *APK file* extension is an Android Package file that's used to distribute applications on Google's Android operating system"

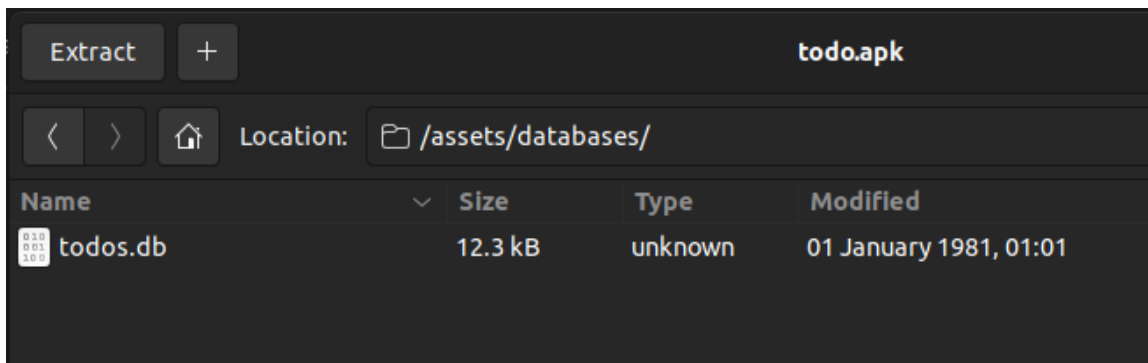
If we open the file in the explorer window:



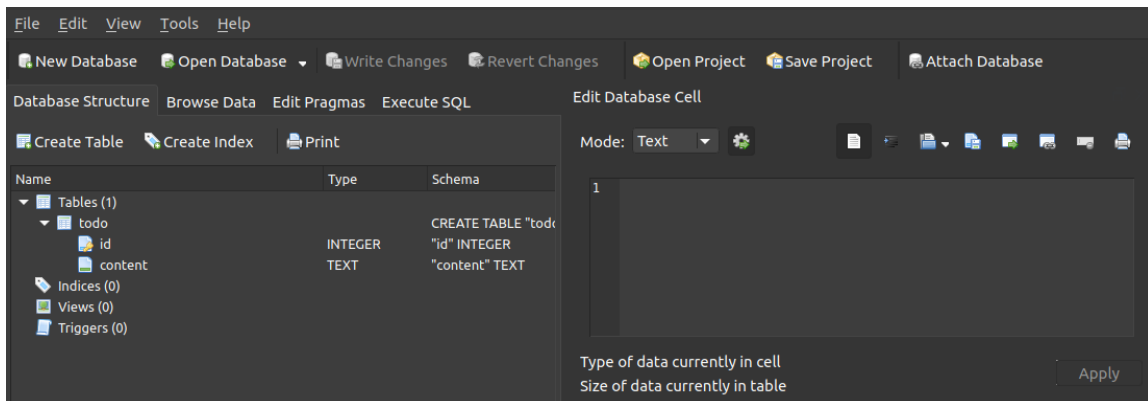
Normally information can be found in the asset space.



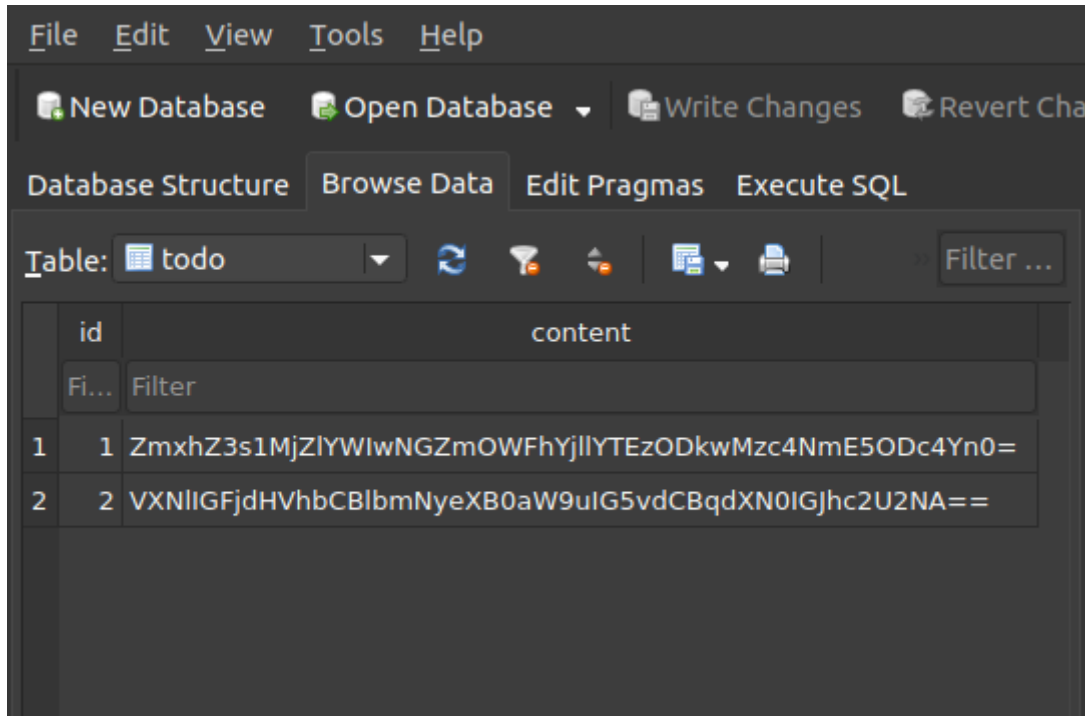
This shows a database.



If we open this - my default tool for this is DB Browser for SQLite, we will see what it contains.



We notice that it has a todo list and by clicking on the Browse Data tab to the right of the already selected Database Structure, we see the data.



It appears to be in the base64, looking at the '=' character at the end of the file.

Using the command line we can decode these:

```
$ echo "ZmxhZ3s1MjZlYWlwNGZmOWFhYjllYTEzODkwMzc4NmE5ODc4Yn0=" | base64 -d
flag{526eab04ff9aab9ea138903786a9878b}
```

```
$ echo "VXNIIGFjdHVhbCB1bmNyeXB0aW9uIG5vdCBqdXN0IGJhc2U2NA==" | base64 -d  
Use actual encryption not just base64
```

Now we have the flag.

Flag:

flag{526eab04ff9aab9ea138903786a9878b}