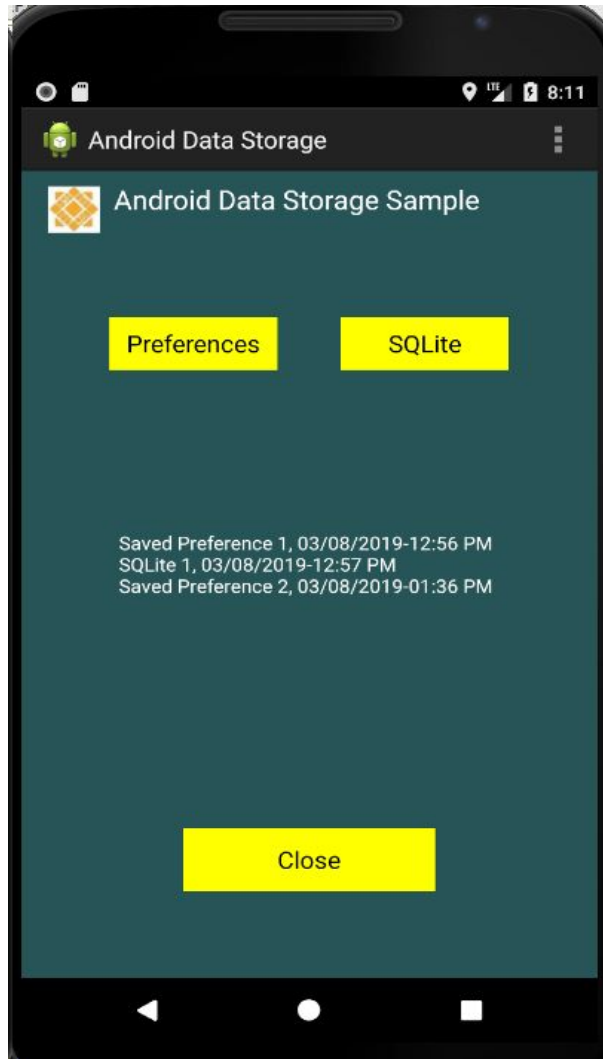
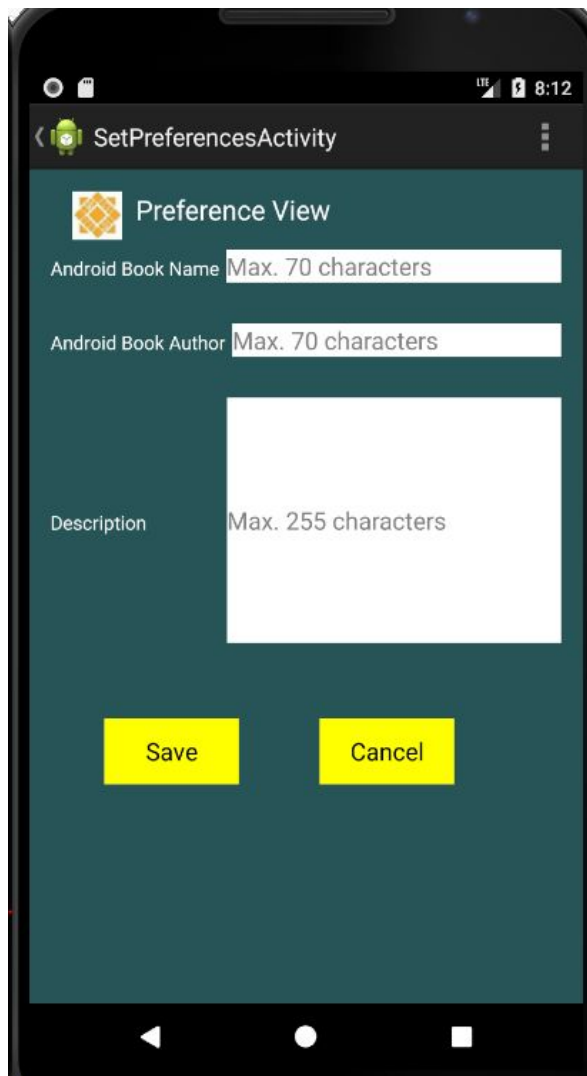


Assignment-Android shared preferences & SQLite storage techniques.

1. Created the UI as shown below to demonstrate the android shared preferences and SQLite usage.

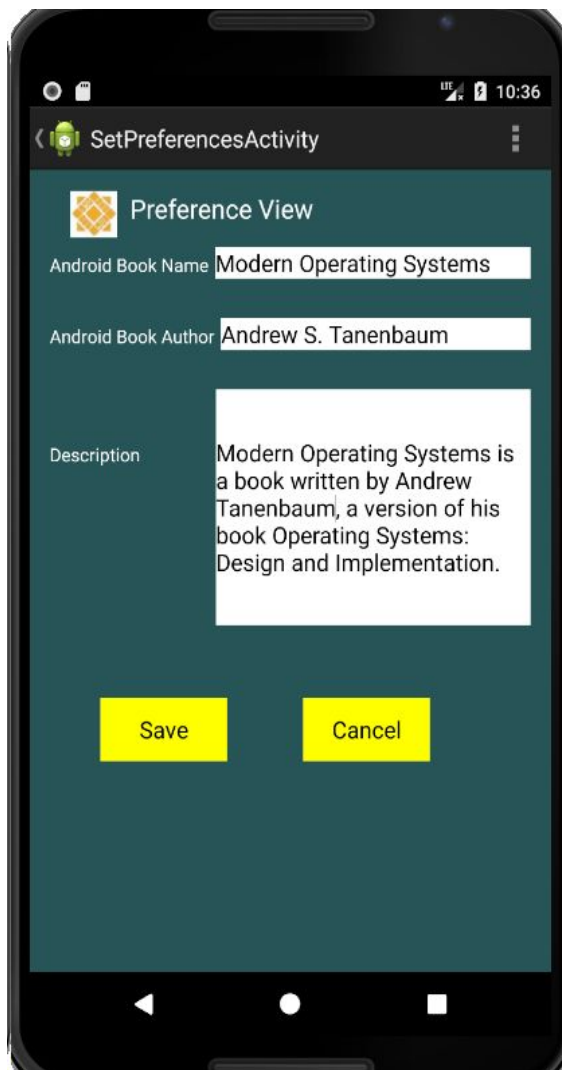


2. On click of “Preferences” button the below UI renders.



The screenshot displays an Android application interface. At the top, the status bar shows 'LTE' and the time '8:12'. Below the status bar, the app's title bar reads 'SetPreferencesActivity'. The main content area has a dark teal background and is titled 'Preference View' with a small orange icon. It contains three input fields: 'Android Book Name' with a 'Max. 70 characters' limit, 'Android Book Author' with a 'Max. 70 characters' limit, and a 'Description' field with a 'Max. 255 characters' limit. At the bottom, there are two yellow buttons labeled 'Save' and 'Cancel'. The bottom navigation bar shows the standard Android navigation icons.

3. Once the user data is entered in the UI as shown below. The inputs provided by the user will be saved in the sharedpreferences.



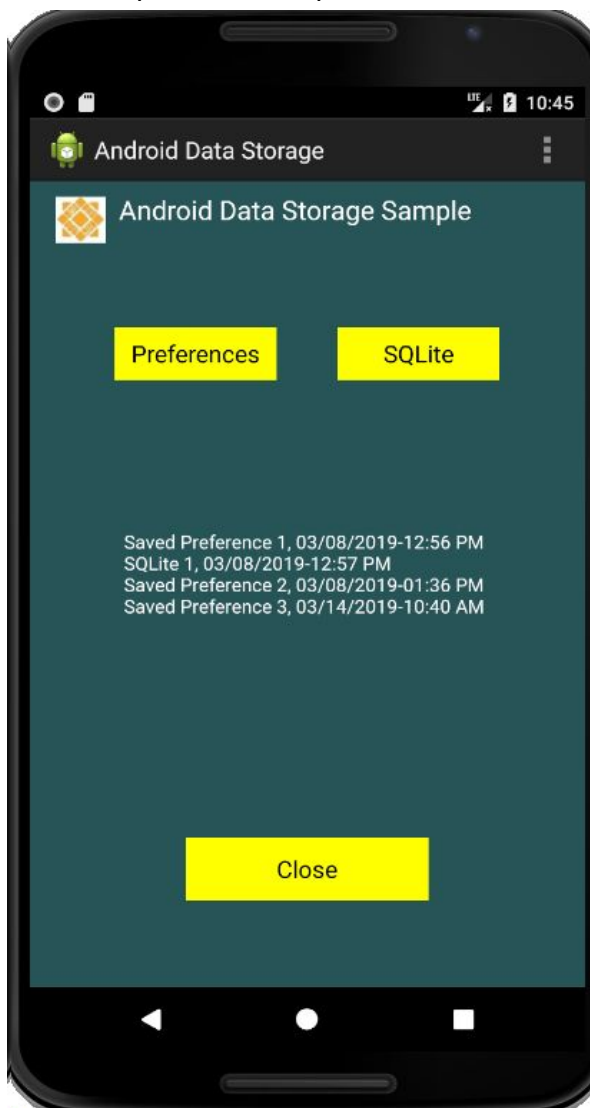
4. Shared preferences xml file in the device folder of the app is updated with the new value as shown below:



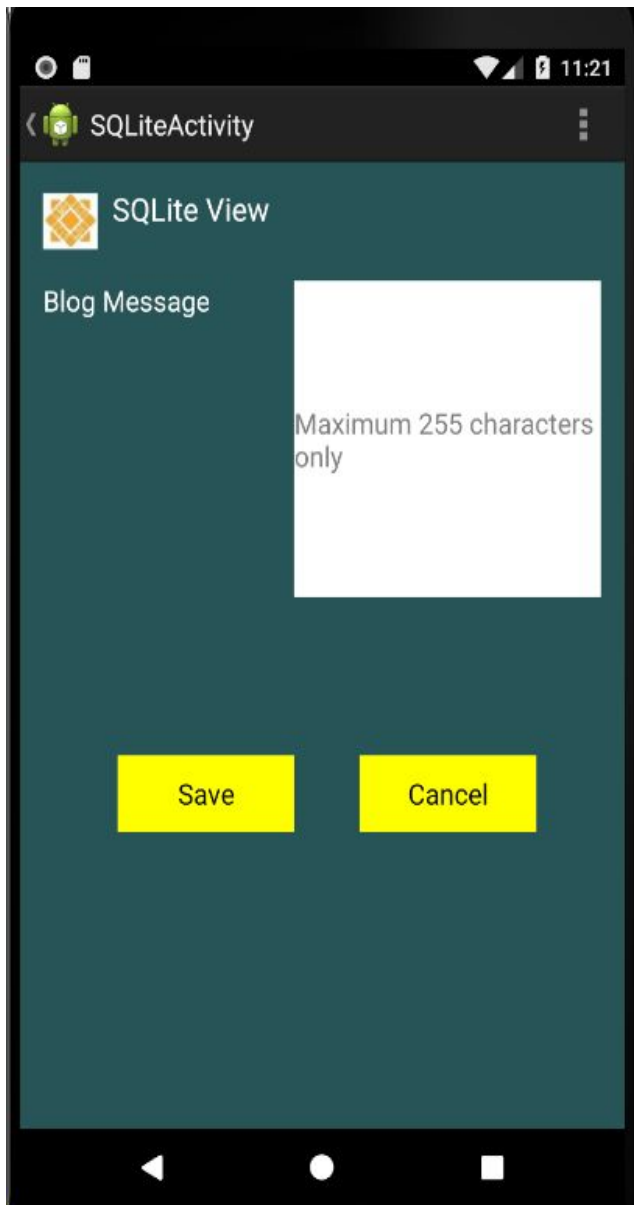
The screenshot shows an IDE with three tabs: 'com.seconclassig.androiddatastorage\_preferences.xml', 'SetPreferencesActivity.java', and 'app'. The XML file is open, displaying the following code:

```
1 <?xml version='1.0' encoding='utf-8' standalone='yes' ?>
2 <map>
3   <string name="DESCRIPTION">Modern Operating Systems is a book written by Andrew Tanenbaum, a version of his book Operating Systems: Design and :
4   <string name="AUTHOR">Andrew S. Tanenbaum</string>
5   <int name="SQL_COUNTER" value="1" />
6   <int name="COUNTER" value="3" />
7   <string name="NAME">Modern Operating Systems</string>
8 </map>
9
```

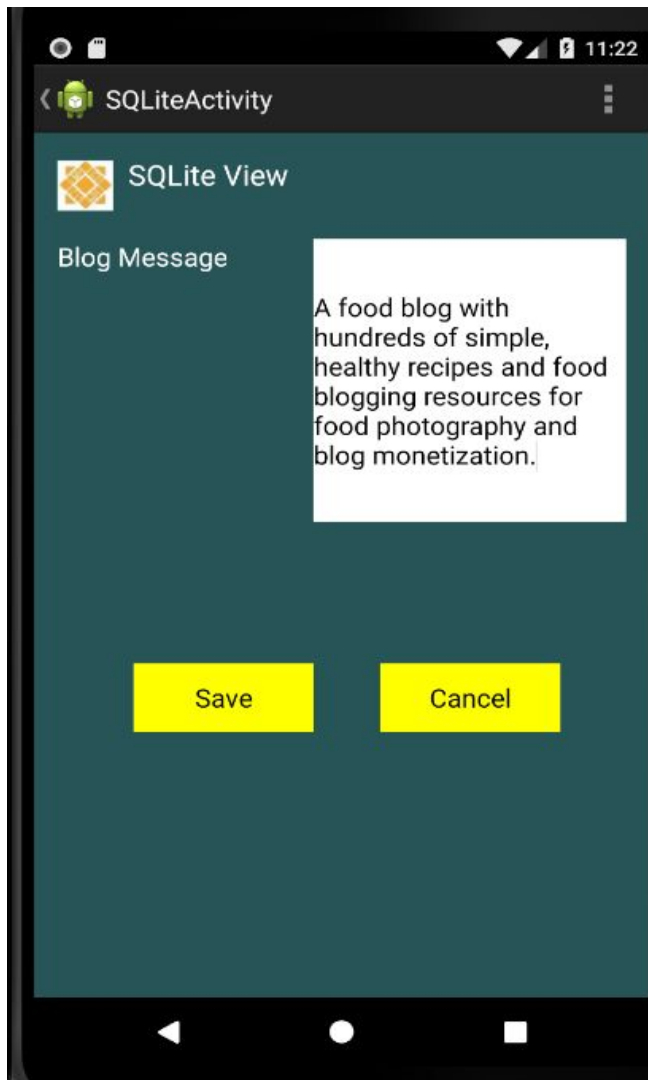
5. On the UI, preferences updated time and count will be displayed for the user.



6. On click of the “SQLite” button, below UI is rendered to the user.



- Once the user enters the data, the input blog message will be saved in the SQLite DB and can be verified in the device app folder.



```
activity_main.xml | Assignment2.db
File was loaded in the wrong encoding: 'UTF-8' | Reload in another encoding ⚙️
1 | SQLite format 30000 00000000.
2 | 
3 | 00Y000Y00000000tableMsg_TableMsg_Table0CREATE TABLE Msg_Table (Message text not null)W000--0tableandroid_metadataandroid_metadata0CREATE TABLE and
4 | 00000000en_US
5 | 00 0 0000A food blog with hundreds of simple, healthy recipes and food blogging resources for food photography and blog monetization.
```

8. On saving the data, the timestamp and the counter describing the number of updates on that field will be displayed to the user in main UI.

