Assignment 4: Diary App

For this assignment, the goal is to develop a Diary App.

The App should provide the following functionality:

* Create a password so only a user with the password can access the data stored in the diary (look how shared preferences can help you to accomplish this goal). I’m not asking to be extremely secured here as this would require you to work with hashing/encryption. Only something simple so it creates a basic security protection.
* After the password is created, the app should request the password to open the diary. From here, there are two options: Show all entries, or Create a New Entry.
* When the user selects Show all entries, the application shows a list of all diary entries. If a user selects a diary entry, the application should open an activity with the data of the particular entry
* When the user creates a new entry, the application opens a new activity where the user can type a new entry in the system.

An entry in our diary is made of the following:

* An id: an integer. Each entry has an unique id
* A Subject: A string of max of 60 characters that represents the
* An Entry: Text of the diary’s entry. For the purpose of the assignment, you will be storing up to 420 characters
* Date of creation: The date when the entry was created. This is open to you. You can choose to store the date as a string or as a long integer.

**Design Constraint:** The application should make use of SQLite databases to create/retrieve the info in the diary.

**What to submit?:** Source code of the app, a document explaining your design/how your app works.