Secure the android application

There is no way to secure the android app 100%. Only way to protect your app is to make it no sense to spend too much time to reverse engineer it. For that we can use proguard. Other solutions are,

- 1. Keeping most important part of the code in C/C++
- 2. Using NDK to write the code in natively into .SO file

Enabling proguard obfuscation in the APP

- ➤ Go to build.gradle file of your app
- > Enable the minifyEnable True

Then build the application in release mode

Steps: -

- 1. On the menu bar click **Build > Generated Signed APK**
- 2. Click Create New to create a new key and keystore
- 3. On the New Keystore window, provide the informations
- 4. Then press **OK**
- **5.** On the next window select the destination of the signed apk , build type(release) and click the **Finish**

Proguard runs only when you build the application in release mode. Proguard will replace the all names by meaningless character sequences, making it much harder to reverse engineer the code