**Asynchronous listeners:** Data stored in a Firebase Realtime Database is retrieved by attaching an asynchronous listener to a database reference. The listener is triggered once for the initial state of the data and again anytime the data changes.

### **Connecting android application to firebase cloud**

1. To have a project in Firebase cloud we have first created a Gmail account and then logged in to Firebase cloud by that account.
2. Then we create a Firebase project and register our app with it.
3. After that, a google-service.json file which is Firebase configuration file was given to be added to the Android project. To enable Firebase products in our app, we added the following google-services plugin to build.gradle file:

* apply **plugin**: **'com.google.gms.google-services'**

1. The dependency for Realtime Database was also added to the build.gradle file:

* dependencies {  
  implementation **'com.google.firebase:firebase-database:16.0.4'**}

1. Also, we configured Firebase Database Rules. To be able to send and receive data to the database we defined the database rules of read and write as true which allows everyone has a reference to the database to read and write to it.
2. After doing all the above configuration, we can start reading or writing to the database.