

How to Run a Sample Listing in Java for Android Programmers For Dummies with updated versions of Android and Android Studio (March 2022)

1. Create a project with an Empty Activity and a package named `com.allyourcode.a02_01`
2. Look for the `MainActivity.java` file in my sample code. It's in the folder `02-01/app/src/main/java/com/allyourcode/a0201`.
3. Copy/Paste my `MainActivity` code into your new `MainActivity.java` file, and then change

```
import android.support.v7.app.AppCompatActivity;
```

to

```
import androidx.appcompat.app.AppCompatActivity;
```

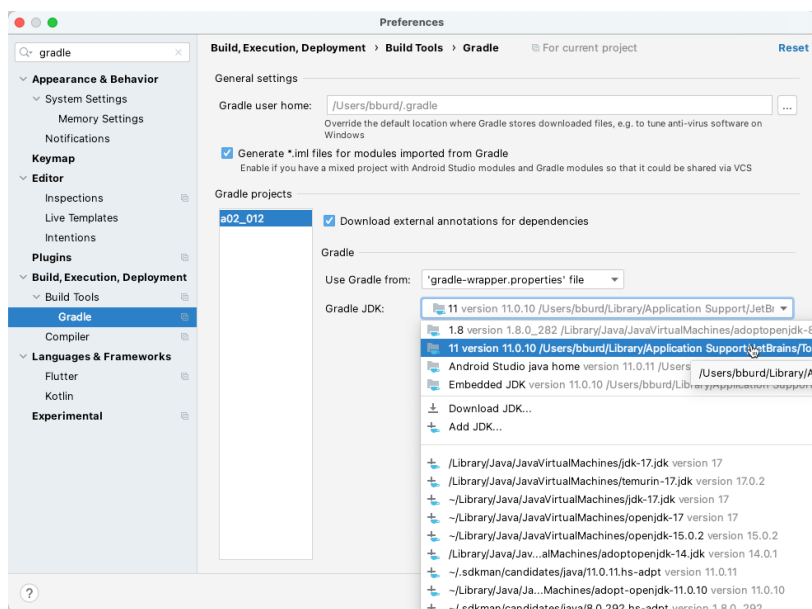
4. Copy the project's `app/src/main/res/layout/activity_main.xml` file to the corresponding file in your new project.
5. At the top and bottom of the project's `app/src/main/res/layout/activity_main.xml` file, change

```
android.support.constraint.ConstraintLayout
```

to

```
androidx.constraintlayout.widget.ConstraintLayout
```

6. In Android Studio's Preferences/Settings, set the Java (JDK) version to 11 or higher.



7. (You may have to do this:) In the project's Gradle Scripts/build.gradle (Module: a02_01.app) file, update the compileSdk and targetSdk values:

```
android {  
    compileSdk 31  
  
    defaultConfig {  
        applicationId "com.allyourcode.a02_01"  
        minSdk 23  
        targetSdk 31  
        versionCode 1  
        versionName "1.0"  
    }  
}
```