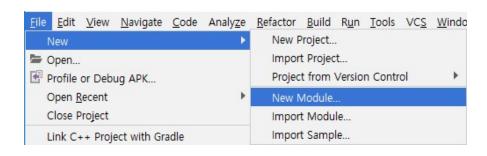
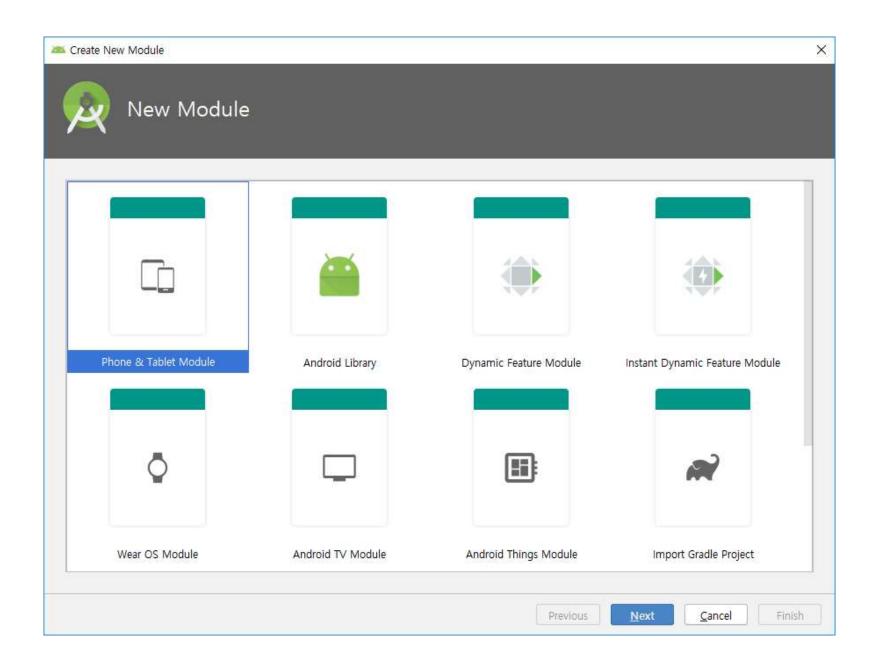
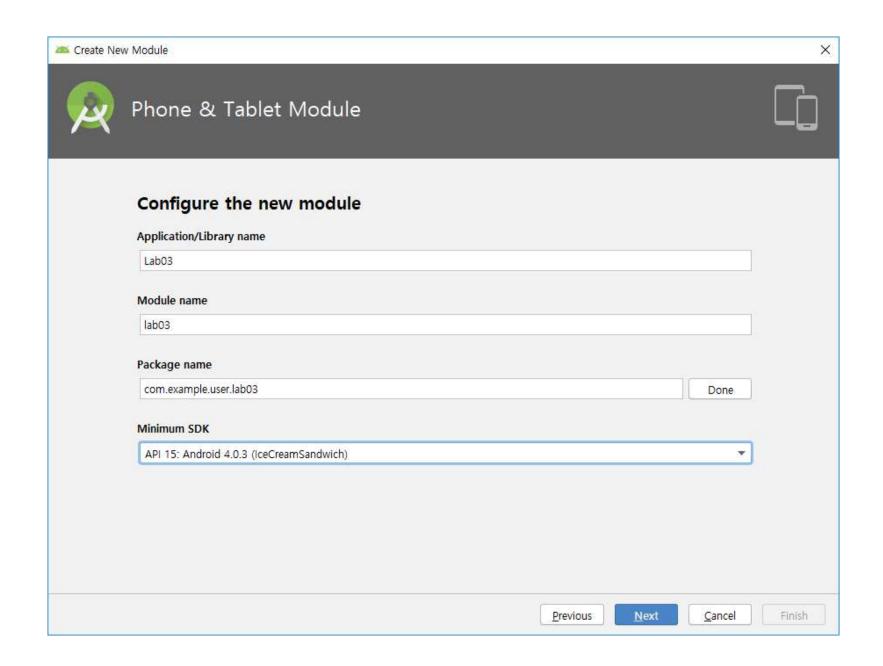
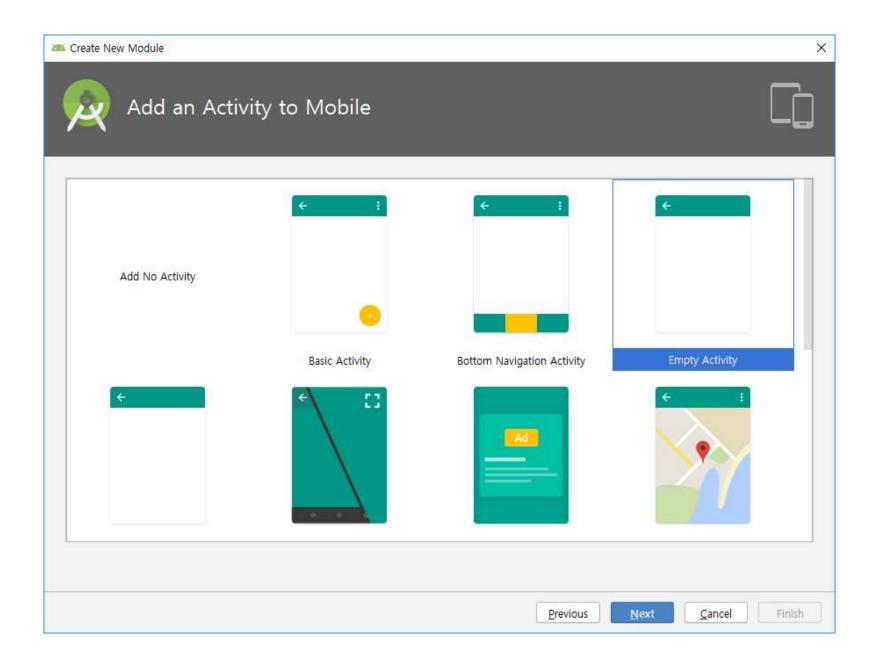
## 진동, 효과음 울리기

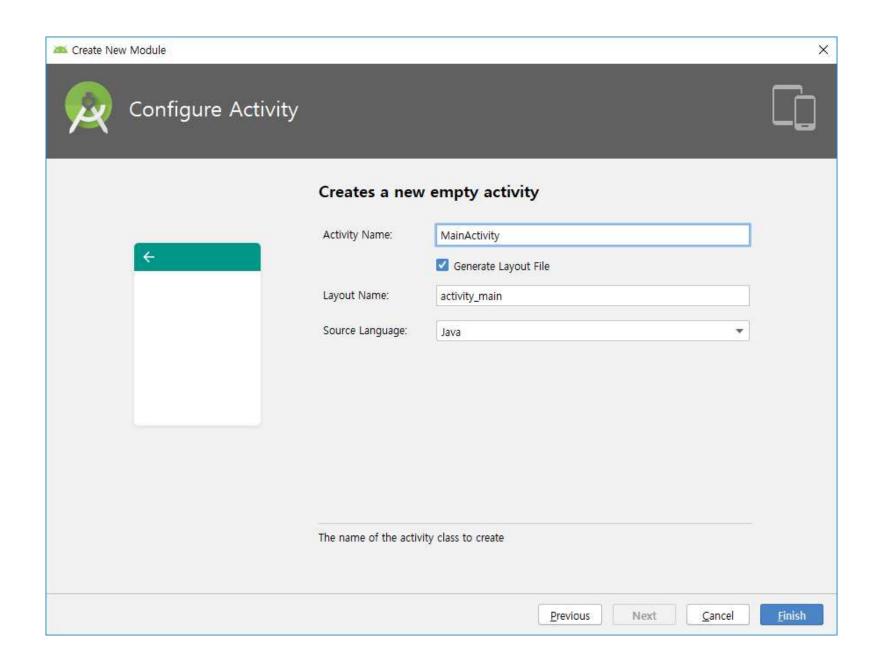
#### Step 1 \_ 모듈 생성



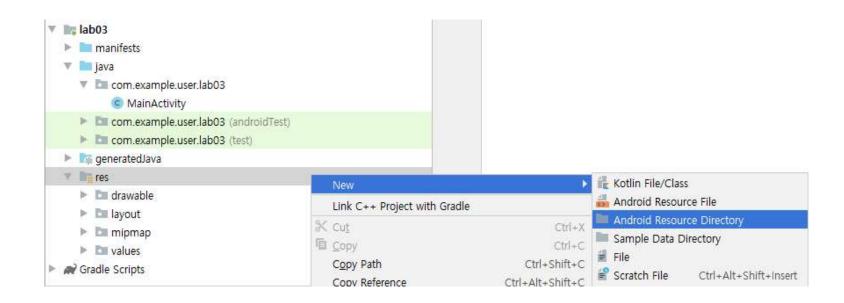


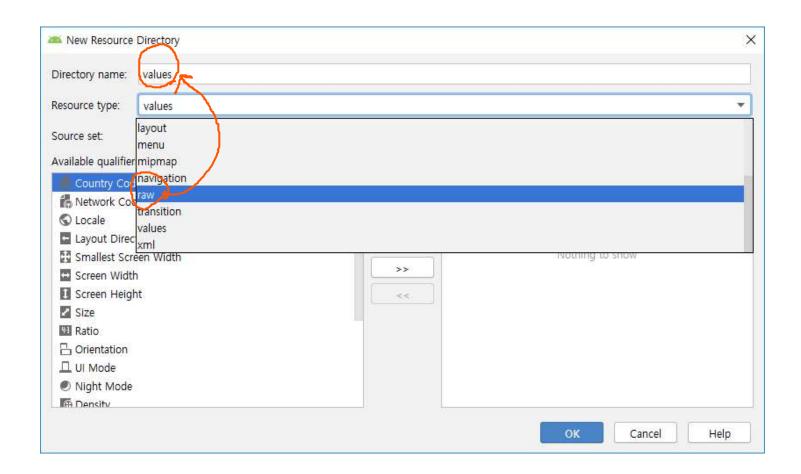




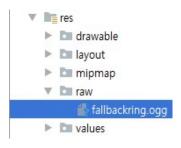


#### Step 2 \_ raw 폴더 생성





### Step 3 \_ 음원 파일 복사



# गुडिगीह स्ट्रीसिट

#### Step 4 \_ 퍼미션 설정

</manifest>

```
System, user
    ▼ III lab03
                         <?xml version="1.0" encoding="utf-8"?>
      manifests
                         <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
          AndroidManifest.xml
                             package="com.example.user.lab03">
                             (uses-permission) android:name="android.permission.VIBRATE" />
                             <application</pre>
                                 android:allowBackup="true"
                                 android:icon="@mipmap/ic launcher"
                                 android:label="@string/app name"
                                 android:roundIcon="@mipmap/ic launcher round"
双台对上型型
                                 android:supportsRtl="true"
                                 android:theme="@style/AppTheme">
                                 <activity android:name=".MainActivity">
                                                                                                        刊生世里 杂芹
                                     <intent-filter>
                                         <action android:name="android.intent.action.MAIN" />
                                         <category android:name="android.intent.category.LAUNCHER" />
                                     </intent-filter>
                                 </activity>
                             </application>
```

#### Step 5 \_ activity\_main.xml 파일 작성

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent"
    android:layout height="match parent"
    android:orientation="vertical">
    <Button
        android:id="@+id/btn_vibration"
        android: layout width="match parent"
        android:layout height="wrap content"
        android:text="vibration" />
    <Button
        android:id="@+id/btn system beep"
        android: layout width="match parent"
        android:layout height="wrap content"
        android:text="system beep" />
    <Button
        android:id="@+id/btn custom sound"
        android:layout_width="match parent"
        android:layout height="wrap content"
        android:text="custom sound" />
</LinearLayout>
```

#### Step 6 \_ MainActivity 작성

```
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
                                Listener 직접구현
    Button vibrationBtn;
    Button systemBeepBtn;
                                                                                                         /iew
    Button customBeepBtn
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity_main);
       vibrationBtn = findViewById(R.id.btn_vibration);
       systemBeepBtn = findViewById(R.id.btn_system_beep);
       customBeepBtn = findViewBvId(R.id.btn custom sound);
       vibrationBtn.setOnClickListener(this);
                                                                                                     Button
Button
       systemBeepBtn.setOnClickListener(this);
                                                                     istener
       customBeepBtn.setOnClicklistener(this);
   }
                                       1圣
    @Override
    public void onClick(View view) {
       if (view == vibrationBtn) {
           Vibrator vibrator = (Vibrator) getSystemService(Context. VIBRATOR_SERVICE); vibrator.vibrate(1000);
       } else if (view == systemBeepBtn) +
           Uri notification = RingtoneManager.getDefaultUri(RingtoneManager.TYPE_NOTIFICATION);
           Ringtone ringtone = RingtoneManager.getRingtone(getApplicationContext(), notification);
           ringtone.play();
                                                                                    URI
       } else if (view == customBeepBtn) {
           MediaPlayer player = MediaPlayer. create(this, R.raw. rallbackring);
           player.start();
   }
```

#### Vibrator

- public void vibrate (long milliseconds)
- public void vibrate (long[] pattern, int repeat)
  - pattern
    - {off, on, off, on, ...}
  - repeat
    - -1: 한 번만 패턴대로 진동
    - 0: 진동이 무한반복
      - 코드에서 적절한 시점에 cancel() 함수를 호출하여 진동 울리기를 멈추어 주어야 함

```
Vibrator vibrator = (Vibrator) getSystemService(Context. VIBRATOR_SERVICE); vibrator.vibrate(new long[]{500, 1000, 500, 1000}, -1); O. Sをいうしまる。
```

#### RingtoneManager

int	TYPE_ALARM
	Type that refers to sounds that are used for the alarm.
int	TYPE_NOTIFICATION
	Type that refers to sounds that are used for notifications.
int	TYPE_RINGTONE
	Type that refers to sounds that are used for the phone ringer.

### Step 7 \_ 실행

