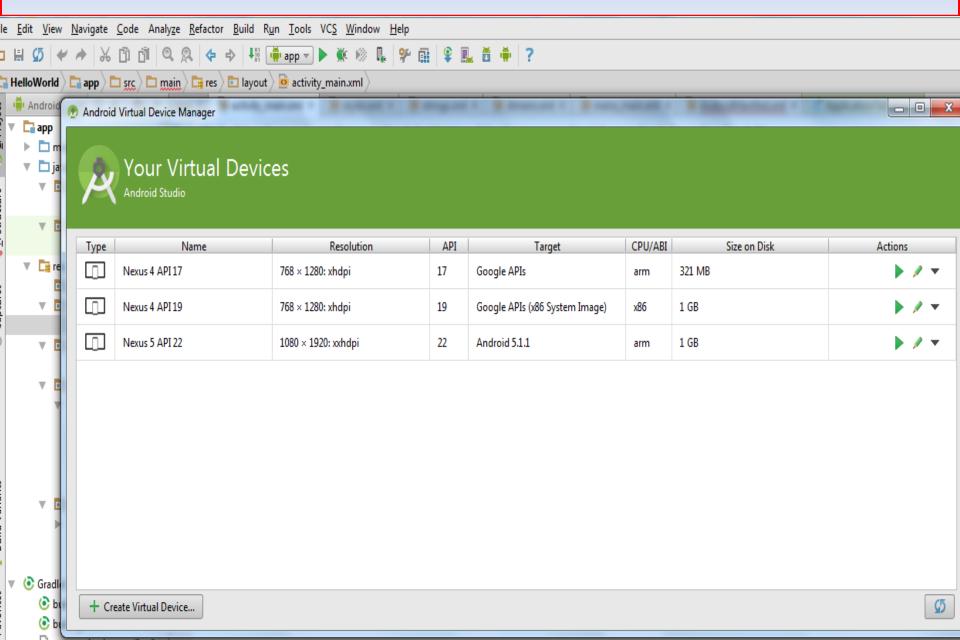
Android programming

- Explore Android studio
- Write Android applications

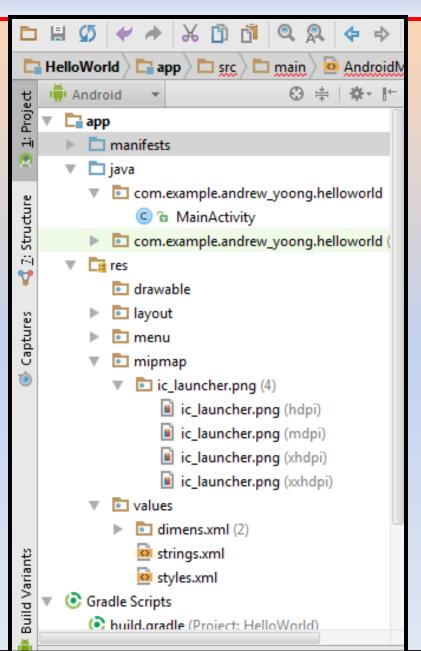
Android Virtual Device (AVD) manager



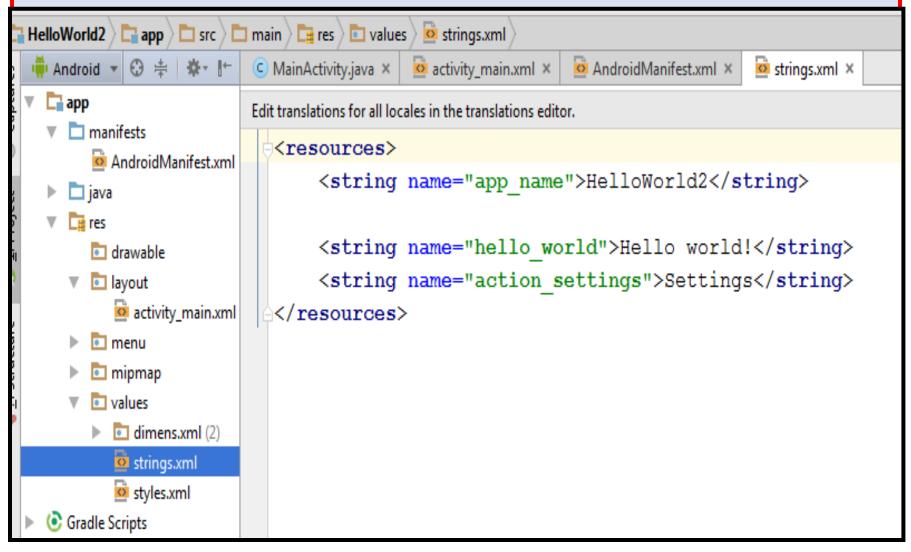
Manifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  package="com.example.andrew_yoong.helloworld" >
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="HelloWorld2"
    android:theme="@style/AppTheme" >
    <activity
      android:name=".MainActivity"
      android:label="@string/app_name" >
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
  </application>
</manifest>
```

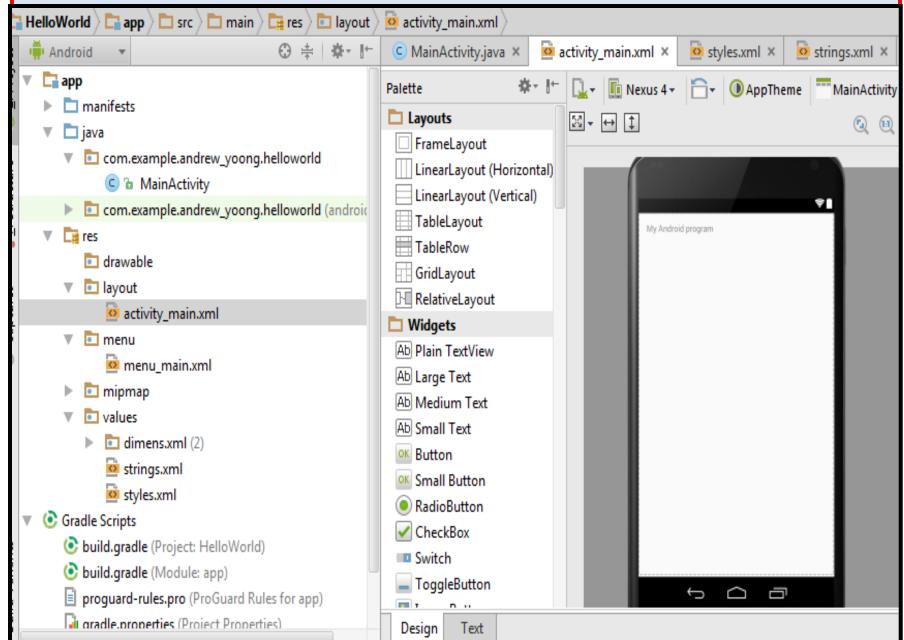
Manifest.xml

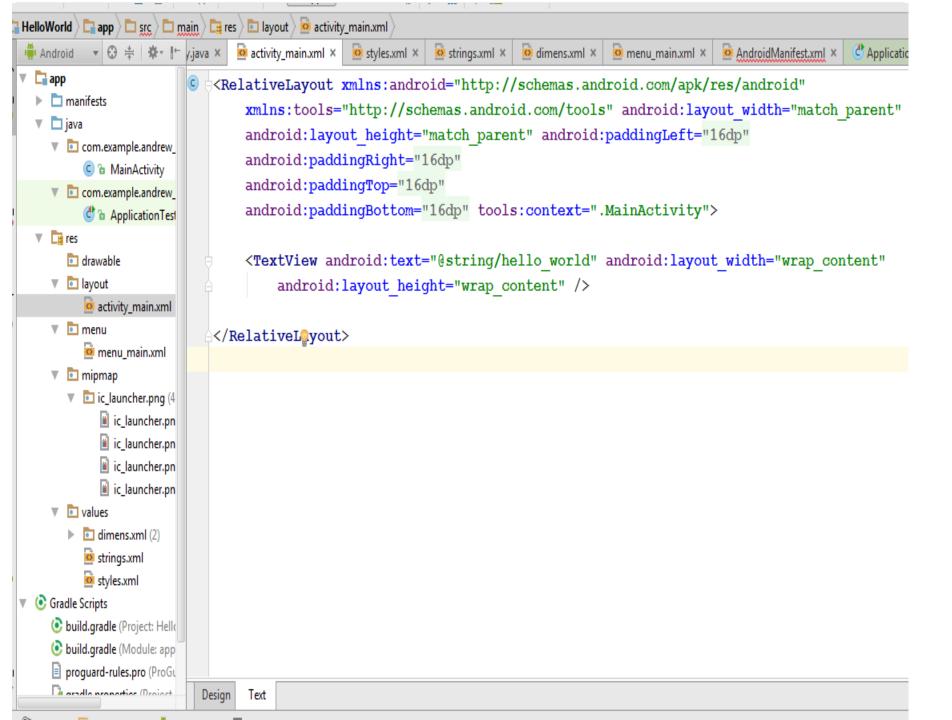


res\values\strings.xml

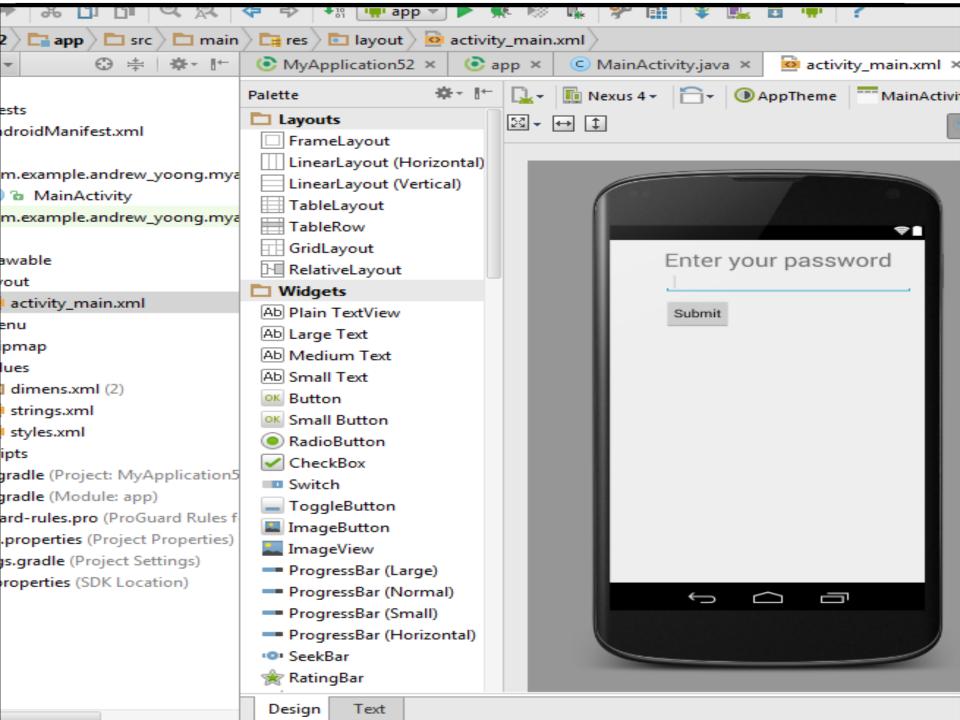


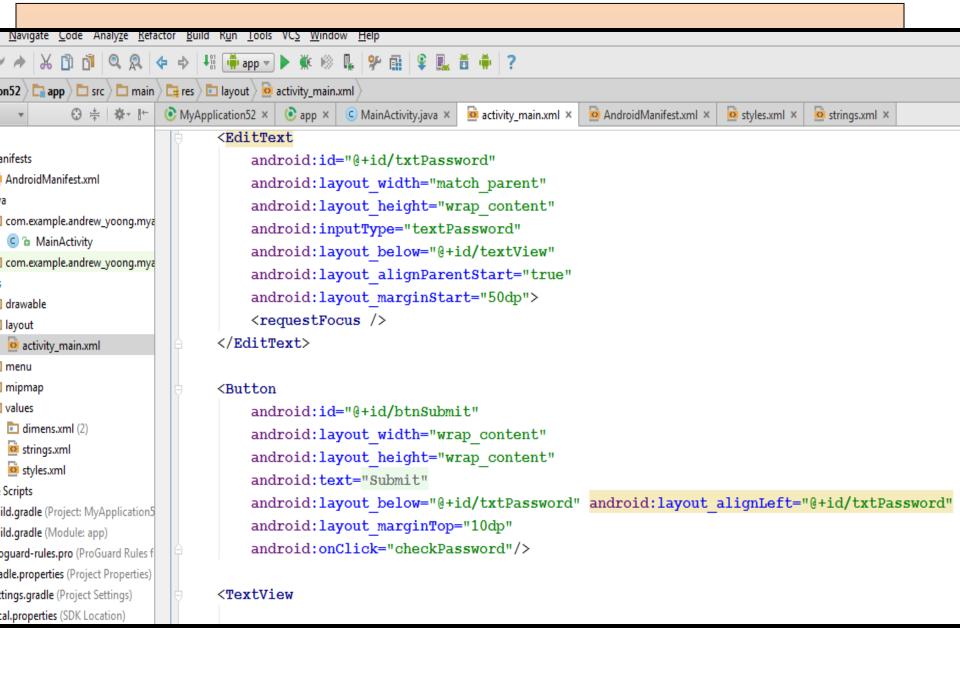
res\layout\activity_main.xml





```
public class MainActivity extends ActionBarActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
 @Override
  public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.menu_main, menu);
    return true;
  @Override
  public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();
    //noinspection SimplifiableIfStatement
    if (id == R.id.action settings) {
      return true;
    return super.onOptionsItemSelected(item); } }
```





```
Application51 🕽 🗀 app 🕽 🗀 src 🤇 🗀 main 🥽 🗀 java 🕽 🖭 com 🕽 🛅 example 🕽 🛅 andrew yoong 🕽 🛅 myapplication51 🕽
                                                                             MainActivity

    MainActivity.java ×

                       activity_main.xml ×

    app X

      Gradle project sync failed. Basic functionality (e.g. editing, debugging) will not work properly.
                                                                                                                   Try Again
             public void checkPassword(View v) {
                  password = (EditText) findViewById(R.id.txtPassword);
                  // Toast toast = new Toast(getApplicationContext());
                         toast.setGravity(Gravity.TOP | Gravity.LEFT, 0, 0);
 Ġ
        // Toast toast = Toast.makeText(context, text, duration);
                        toast.makeText(MainActivity.this, password.getText(), toast.LENGTH SHORT).show();
                  Toast.makeText(getApplicationContext(), password.getText(), Toast.LENGTH SHORT).show();
                  if (password.getText().toString().equals("1234")) {
                      Toast.makeText(getApplication(), "Guess me", Toast.LENGTH SHORT).show();
```

```
fyApplication52 🕽 급 app 🕽 🗀 src 🕽 🗀 main 🕽 🗀 java 🕽 🛅 com 🕽 🛅 example 🕽 🛅 andrew_yoong 🕽 🛅 myapplication52 🥇 🔾 MainActivity
                                         💽 app × 🔾 MainActivity.java × 🔯 activity_main.xml × 🔯 AndroidManifest.xml ×
             ⊕ ÷ ₩- ⊩
                         MyApplication52 ×
                                                                                                                 strings.xml ×
Android
                                                                                                     💆 styles.xml 🗴
                                                                                                                              settings.gradle ×
📮 арр
                                 private EditText password;
manifests
                                 private Button btnSubmit;
     AndroidManifest.xml
                                 public void addListenerOnButton() {
▼ 🗖 java
   com.example.andrew_yoong
                                     password = (EditText) findViewById(R.id.txtPassword);
       © ७ MainActivity
                                     btnSubmit = (Button) findViewById(R.id.btnSubmit);
   com.example.andrew_yoong
▼ 📴 res
                                     btnSubmit.setOnClickListener((v) → {
     drawable
   ▼ 🗓 layout
                                             // Toast toast = new Toast(getApplicationContext());
       activity_main.xml
                                                 toast.setGravity(Gravity.TOP | Gravity.LEFT, 0, 0);
   menu 🗖
                            // Toast toast = Toast.makeText(context, text, duration);
    mipmap
                                                 toast.makeText(MainActivity.this, password.getText(), toast.LENGTH SHORT).show();
   ▼ alues
                                              Toast.makeText(getApplicationContext(), password.getText(), Toast.LENGTH SHORT).show()
     dimens.xml (2)
                                               if (password.getText().toString().equals("1234")) {
       strings.xml
                                                   Toast.makeText(getApplicationContext(), "Guess me", Toast.LENGTH SHORT).show();
       styles.xml
Gradle Scripts
```