Handout Praktikum Mobile Application

Topik 1 – Activity dan Intent

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1 Tujuan

- 1. Mahasiswa dapat memahami siklus hidup activity
- 2. Mahasiswa dapat menentukan gaya dan tema activity
- 3. Mahasiswa dapat menampilkan activity sebagai jendela dialog
- 4. Mahasiswa dapat memahami konsep intent

2 Komponen/Peralatan

- PC/laptop
- Android Studio

3 Dasar Teori

Aplikasi Android memiliki banyak komponen, salah empatnya adalah activity, service, broadcast receiver, dan content provider. Hari ini kita khusus mempelajari activity.

Activity adalah komponen UI paling utama. Setidaknya dalam satu aplikasi terdapat satu buah activity. Di dalamnya bisa kamu isi dengan View dan ViewGroup. Contoh View adalah TextView yang berfungsi untuk menampung string. Selain itu ada pula Button yang berfungsi layaknya push-button dalam dunia nyata. ViewGroup berfungsi untuk memberikan tata letak View. Dalam praktikum ini, kita tidak akan membahas detail mengenai user interface.

Setiap activity mempunyai siklus hidup-nya masing-masing. Berikut ini adalah diagram state-nya.

Dalam percobaan 4.1 kalian akan mencoba memperhatikan siklus hidup activity.

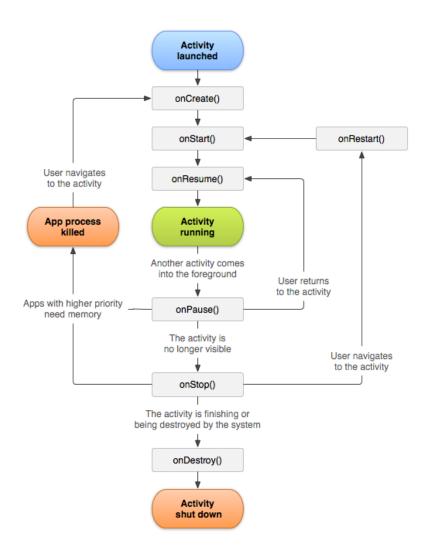


Figure 1: Siklus Hidup Activity

Dalam satu aplikasi biasanya ada banyak activity. Jika kasusnya demikian, mungkin kamu harus menggunakan intent untuk menghubungkan antar activity.

Untuk keterangan lebih lanjut silahkan baca website resmi Android.

4 Langkah Praktikum

4.1 Memahami Siklus Hidup Activity

- 1. Buat proyek baru dengan ketentuan sebagai berikut.
 - Nama aplikasi \rightarrow **Activity101**
 - Pilih template activity \rightarrow Empty Activity
 - Nama activity → Activity101Activity
- 2. Buka file Activity101Activity.java lalu copy-paste listing di bawah ini.

```
package com.example.activity101;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
public class Activity101Activity extends AppCompatActivity {
  String tag = "Lifecycle Step";
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_activity101);
    Log.d(tag, "In the OnCreate() event");
  }
  public void onStart() {
    super.onStart();
    Log.d(tag, "In the onStart() event");
  }
  public void onRestart() {
    super.onRestart();
    Log.d(tag, "In the onRestart() event");
  }
  public void onResume() {
    super.onResume();
    Log.d(tag, "In the onResume() event");
  }
  public void onPause() {
    super.onPause();
    Log.d(tag, "In the onPause() event");
```

```
public void onStop() {
    super.onStop();
    Log.d(tag, "In the onStop() event");
}

public void onDestroy() {
    super.onDestroy();
    Log.d(tag, "In the onDestroy() event");
}
```

- 3. Tekan Shift + F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Device yang kalian inginkan.
- 4. Ketika Activity pertama kali berjalan, kamu akan melihat baris log pada konsol logcat yang mirip seperti berikut ini.

```
06-04 17:42:48.344 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the OnCreate() event 06-04 17:42:48.344 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onStart() event 06-04 17:42:48.345 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onResume() event
```

5. Tekan tombol Back pada emulator, lalu perhatikan konsol logcat. Terdapat baris log seperti berikut.

```
06-04 17:43:17.148 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onPause() event 06-04 17:43:17.610 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onStop() event 06-04 17:43:17.610 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onDestroy() event
```

6. Tekan tombol Home pada emulator, jalankan kembali aplikasi Activity101, lalu perhatikan konsol logcat. Terdapat baris log seperti berikut.

```
06-04 17:44:20.841 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the OnCreate() event 06-04 17:44:20.842 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onStart() event 06-04 17:44:20.844 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onResume() event
```

7. Tekan tombol Home pada emulator, jalankan aplikasi Phone, lalu perhatikan konsol logcat. Terdapat baris log seperti berikut.

```
06-04 17:44:57.703 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onPause() event 06-04 17:44:57.748 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onStop() event
```

8. Perhatikan bahwa *event* onDestroy() tidak terpanggil. Terakhir, tekan tombol Back pada emulator, jalankan aplikasi Activity101, lalu perhatikan konsol logcat. Terdapat baris log seperti berikut.

```
06-04 17:46:51.928 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onRestart() event 06-04 17:46:51.928 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onStart() event 06-04 17:46:51.929 21251-21251/com.example.activity101 D/Lifecycle \rightarrow Step: In the onResume() event
```

4.2 Menampilkan Jendela Dialog Menggunakan Activity

- 1. Buat proyek baru dengan ketentuan berikut ini.
 - Nama aplikasi \rightarrow **Dialog**
 - Pilih template activity \rightarrow **Basic Activity**.
 - Nama $activity \rightarrow \mathbf{DialogActivity}$.
- 2. Buka file AndroidManifest.xml, lalu copy-paste listing berikut ini.

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

3. Tekan Shift+F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Devices yang kalian inginkan. Hasil akhir ditunjukkan pada Figure 2.

4.3 Menampilkan Dialog Perkembangan

1. Gunakan kembali proyek **Activity101**.

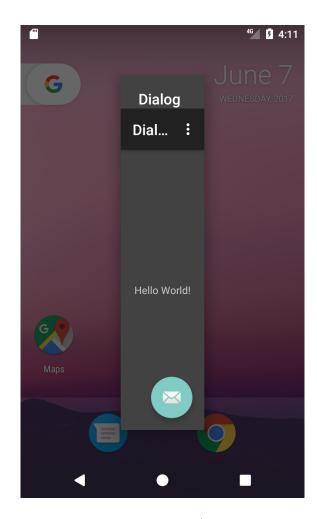


Figure 2: Hasil Akhir

2. Buka file AndroidManifest.xml, lalu copy-paste listing berikut ini.

```
<?xml version="1.0" encoding="utf-8"?>
  <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    package="com.example.activity101">
    <application
      android:allowBackup="true"
      android:icon="@mipmap/ic_launcher"
      android:label="@string/app_name"
      android:roundIcon="@mipmap/ic_launcher_round"
      android:supportsRtl="true"
      android:theme="@android:style/Theme.Material">
      <activity android:name=".Activity101Activity">
        <intent-filter>
          <action android:name="android.intent.action.MAIN" />
          <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
      </activity>
    </application>
  </manifest>
3. Buka file Activity101Activity.java, lalu copy-paste listing berikut ini.
  package com.example.activity101;
  import android.app.Activity;
  import android.app.ProgressDialog;
  import android.os.Bundle;
  import android.os.CountDownTimer;
  public class Activity101Activity extends Activity {
    ProgressDialog progressDialog;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_activity101);
    }
    public void onStart()
    {
      super.onStart();
      progressDialog = ProgressDialog.show(this, "Please Wait",
       → "Processing...", true);
      CountDownTimer timer = new CountDownTimer(3000, 1000) {
        @Override
        public void onTick(long millisUntilFinished) {
```

```
    @Override
        public void onFinish() {
        progressDialog.dismiss();
     }
}.start();
}
```

4. Tekan Shift+F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Devices yang kalian inginkan. Hasil akhir ditunjukkan pada Figure 3 dan Figure 4.

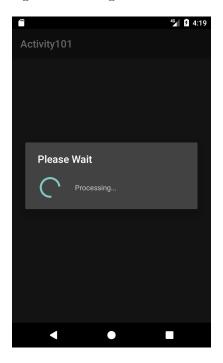






Figure 4: Hasil Akhir (2)

4.4 Menghubungkan Antar Activity Menggunakan Intent

- 1. Buat proyek baru dengan ketentuan berikut ini.
 - Nama aplikasi \rightarrow UsingIntent
 - Pilih template activity \rightarrow **Empty Activity**.
- 2. Pilih File > New > Activity > Empty Activity. Activity yang baru tersebut diberi nama SecondActivity.
- 3. Buka AndroidManifest.xml lalu copy-paste listing berikut ini

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.usingintent">
  <application</pre>
```

```
android:allowBackup="true"
      android:icon="@mipmap/ic_launcher"
      android:label="@string/app_name"
      android:roundIcon="@mipmap/ic_launcher_round"
      android:supportsRtl="true"
      android:theme="@style/AppTheme">
      <activity android:name=".MainActivity">
        <intent-filter>
          <action android:name="android.intent.action.MAIN" />
          <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
      </activity>
      <activity android:name=".SecondActivity">
        <intent-filter>
          <action android:name="com.example.usingintent.SecondActivity"</pre>
           → />
          <category android:name="android.intent.category.DEFAULT" />
        </intent-filter>
      </activity>
    </application>
  </manifest>
4. Buka activity_main.xml, lalu copy-paste listing berikut ini.
  <?xml version="1.0" encoding="utf-8"?>
  <android.support.constraint.ConstraintLayout</pre>

→ xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.usingintent.MainActivity">
    <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Main Activity!"
      android:id="@+id/textView"
      app:layout_constraintTop_toTopOf="parent"
      android:layout_marginTop="8dp"
      android:layout_marginBottom="8dp"
      app:layout_constraintBottom_toTopOf="@+id/button"
      android:layout_marginRight="8dp"
      app:layout_constraintRight_toRightOf="parent"
      android:layout_marginLeft="8dp"
      app:layout_constraintLeft_toLeftOf="parent"
      app:layout_constraintHorizontal_bias="0.501"
      app:layout_constraintVertical_bias="0.646" />
    <Button
      android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
      android:text="Display second activity"
      android:onClick="onClick"
      android:id="@+id/button"
      android:layout_below="@+id/textView"
      android:layout_alignParentStart="true"
      android:layout_alignParentLeft="true"
      android:layout_marginBottom="232dp"
      app:layout_constraintBottom_toBottomOf="parent"
      android:layout_marginLeft="8dp"
      app:layout_constraintLeft_toLeftOf="parent"
      android:layout_marginRight="8dp"
      app:layout_constraintRight_toRightOf="parent" />
  </android.support.constraint.ConstraintLayout>
5. Buka second_activity.xml, lalu copy-paste listing berikut ini.
  <?xml version="1.0" encoding="utf-8"?>
  <android.support.constraint.ConstraintLayout</pre>

→ xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.usingintent.SecondActivity">
    <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="This is the Second Activity!"
      app:layout_constraintLeft_toLeftOf="parent"
      app:layout_constraintTop_toTopOf="parent"
      app:layout_constraintBottom_toBottomOf="parent"
      app:layout_constraintRight_toRightOf="parent"
      tools:layout_constraintTop_creator="1"
      tools:layout_constraintRight_creator="1"
      tools:layout_constraintBottom_creator="1"
      tools:layout_constraintLeft_creator="1" />
  </android.support.constraint.ConstraintLayout>
6. Buka MainActivity.java, lalu copy-paste listing di bawah ini.
  package com.example.usingintent;
  import android.app.Activity;
  import android.content.Intent;
  import android.os.Bundle;
  import android.view.View;
  public class MainActivity extends Activity {
```

7. Tekan Shift+F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Devices yang kalian inginkan. Hasil akhir ditunjukkan pada Figure 5 dan Figure 6.



Figure 5: Hasil Akhir (1)



Figure 6: Hasil Akhir (2)

4.5 Mendapatkan Hasil dari Activity

- 1. Gunakan kembali proyek **UsingIntent**.
- 2. Buka activity_second.xml, lalu copy-paste listing di bawah ini.

```
<TextView
  android:id="@+id/textView2"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="Please enter your name"
  app:layout constraintBottom toBottomOf="parent"
  app:layout_constraintHorizontal_bias="0.067"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout_constraintRight_toRightOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.066"
  tools:layout_constraintBottom_creator="1"
  tools:layout_constraintLeft_creator="1"
  tools:layout_constraintRight_creator="1"
  tools:layout_constraintTop_creator="1" />
<TextView
  android:id="@+id/textView3"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:text="This is the Second Activity!"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintRight_toRightOf="parent"
  tools:layout_constraintTop_creator="1"
  tools:layout_constraintRight_creator="1"
  tools:layout_constraintBottom_creator="1"
  tools:layout_constraintLeft_creator="1"
  app:layout constraintHorizontal bias="0.073"
  app:layout_constraintVertical_bias="0.032" />
<EditText
  android:id="@+id/editText"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_marginLeft="16dp"
  android:layout_marginRight="8dp"
  android:ems="10"
  android:hint="John Doe"
  android:inputType="textPersonName"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintHorizontal_bias="0.0"
  app:layout_constraintLeft_toLeftOf="parent"
  app:layout_constraintRight_toRightOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.106" />
```

<Button

```
android:id="@+id/button2"
      android:onClick="onClick"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_marginLeft="16dp"
      android:text="OK"
      app:layout_constraintLeft_toLeftOf="parent"
      android:layout_marginRight="8dp"
      app:layout_constraintRight_toRightOf="parent"
      app:layout_constraintTop_toTopOf="parent"
      android:layout_marginTop="8dp"
      app:layout_constraintBottom_toBottomOf="parent"
      android:layout_marginBottom="8dp"
      app:layout_constraintHorizontal_bias="0.0"
      app:layout_constraintVertical_bias="0.19" />
  </android.support.constraint.ConstraintLayout>
3. Buka file SecondActivity.java, lalu copy-paste listing di bawah ini.
  package com.example.usingintent;
  import android.app.Activity;
  import android.content.Intent;
  import android.net.Uri;
  import android.os.Bundle;
  import android.view.View;
  import android.widget.EditText;
  public class SecondActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_second);
    }
    public void onClick(View view) {
      Intent data = new Intent();
      // get the EditText view
      EditText txt_username = (EditText) findViewById(R.id.editText);
      // set the data to pass back
      data.setData(Uri.parse(txt_username.getText().toString()));
      setResult(RESULT_OK, data);
      // close the activity
      finish();
    }
  }
```

4. Buka file MainActivity.java, lalu copy-paste listing di bawah ini.

```
package com.example.usingintent;
import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
public class MainActivity extends Activity {
  int request_Code = 1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
  }
  public void onClick(View view) {
    startActivityForResult(new

→ Intent("com.example.usingintent.SecondActivity"),
    → request_Code);
  }
  public void onActivityResult(int requestCode, int resultCode, Intent
  → data) {
    if (requestCode == request_Code) {
      if (resultCode == RESULT_OK) {
        Toast.makeText(this,data.getData().toString(),
        Toast.LENGTH_SHORT).show();
    }
  }
}
```

5. Tekan Shift+F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Devices yang kalian inginkan. Hasil akhir ditunjukkan pada Figure 7, Figure 8, Figure 9, dan Figure 10.

4.6 Passing Data Menggunakan Obyek Intent

- 1. Buat proyek baru dengan ketentuan berikut ini.
 - Nama aplikasi: PassingData
 - Pilih Empty Activity
- 2. Pilih File > New > Activity > Empty Activity. Activity yang baru tersebut diberi nama SecondActivity.
- 3. Buka file AndroidManifest.xml, lalu copy-paste listing berikut ini.

```
<?xml version="1.0" encoding="utf-8"?>
  <manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
```



Figure 7: Hasil Akhir (1)

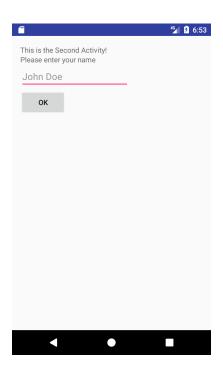


Figure 8: Hasil Akhir (2)

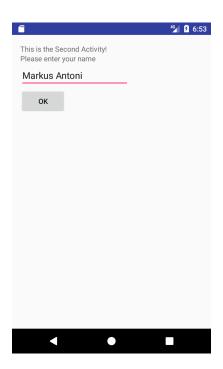


Figure 9: Hasil Akhir (3)



Figure 10: Hasil Akhir (4)

```
package="com.example.passingdata">
    <application
      android:allowBackup="true"
      android:icon="@mipmap/ic_launcher"
      android:label="@string/app_name"
      android:roundIcon="@mipmap/ic_launcher_round"
      android:supportsRtl="true"
      android:theme="@style/AppTheme">
      <activity android:name=".MainActivity">
        <intent-filter>
           <action android:name="android.intent.action.MAIN" />
           <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
      </activity>
      <activity android:name=".SecondActivity">
        <intent-filter>
           <action android:name="com.example.passingdata.SecondActivity"</pre>
           <category android:name="android.intent.category.DEFAULT" />
        </intent-filter>
      </activity>
    </application>
  </manifest>
4. Buka file activity_main.xml, lalu copy-paste listing berikut ini.
  <?xml version="1.0" encoding="utf-8"?>
  <android.support.constraint.ConstraintLayout</pre>

→ xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.passingdata.MainActivity">
    <Button
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Click to go to Second Activity"
      android:id="@+id/button"
      android:onClick="onClick"
      app:layout_constraintLeft_toLeftOf="parent"
      app:layout_constraintTop_toTopOf="parent"
      app:layout_constraintBottom_toBottomOf="parent"
      app:layout_constraintRight_toRightOf="parent" />
  </android.support.constraint.ConstraintLayout>
```

5. Buka file activity_second.xml, lalu copy-paste listing berikut ini.

```
<?xml version="1.0" encoding="utf-8"?>
    <android.support.constraint.ConstraintLayout</pre>

→ xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.example.passingdata.SecondActivity">
    <TextView
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Welcome to the Second Activity"
      android:id="@+id/textView"
      app:layout_constraintLeft_toLeftOf="parent"
      app:layout_constraintRight_toRightOf="parent"
      app:layout_constraintTop_toTopOf="parent"
      app:layout_constraintHorizontal_bias="0.529"
      app:layout_constraintBottom_toTopOf="@+id/button" />
    <Button
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:text="Click to go to Main Activity"
      android:id="@+id/button"
      android:onClick="onClick"
      app:layout_constraintLeft_toLeftOf="parent"
      app:layout_constraintBottom_toBottomOf="parent"
      app:layout_constraintRight_toRightOf="parent"
      app:layout_constraintHorizontal_bias="0.536"
      app:layout_constraintTop_toBottomOf="@+id/textView" />
  </android.support.constraint.ConstraintLayout>
6. Buka file MainActivity.java, lalu copy-paste listing di bawah ini.
  package com.example.passingdata;
  import android.content.Intent;
  import android.os.Bundle;
  import android.support.v7.app.AppCompatActivity;
  import android.view.View;
  import android.widget.Toast;
  public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    }
```

```
Intent i = new Intent("com.example.passingdata.SecondActivity");
      // use putExtra() to add new name/value pairs
      i.putExtra("str1", "This is a string");
      i.putExtra("age1", 25);
      // use a Bundle object to add new name/values pairs
      Bundle extras = new Bundle();
      extras.putString("str2", "This is another string");
      extras.putInt("age2", 35);
      // attach the Bundle object to the Intent object
      i.putExtras(extras);
      // start the activity to get a result back
      startActivityForResult(i, 1);
    }
    public void onActivityResult(int requestCode, int resultCode, Intent
    → data) {
      // check if the request code is 1
      if (requestCode == 1) {
        // if the result is OK
        if (resultCode == RESULT_OK) {
          // get the result using getIntExtra()
          Toast.makeText(this, Integer.toString(
          data.getIntExtra("age3", 0)),
          Toast.LENGTH_SHORT).show();
          // get the result using getData()
          Toast.makeText(this, data.getData().toString(),
          Toast.LENGTH_SHORT).show();
        }
      }
    }
  }
7. Buka file SecondActivity.java, lalu copy-paste listing di bawah ini.
  package com.example.passingdata;
  import android.content.Intent;
  import android.net.Uri;
  import android.os.Bundle;
  import android.support.v7.app.AppCompatActivity;
  import android.view.View;
```

public void onClick(View view) {

```
import android.widget.Toast;
public class SecondActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_second);
    // get the data passed in using getStringExtra()
    Toast.makeText(this,getIntent().getStringExtra("str1"),
    Toast.LENGTH_SHORT).show();
    // get the data passed in using getIntExtra()
    Toast.makeText(this,Integer.toString(
    getIntent().getIntExtra("age1", 0)),
    Toast.LENGTH_SHORT).show();
    // get the Bundle object passed in
    Bundle bundle = getIntent().getExtras();
    // get the data using the getString()
    Toast.makeText(this, bundle.getString("str2"),
    Toast.LENGTH_SHORT).show();
    // get the data using the getInt() method
    Toast.makeText(this,Integer.toString(bundle.getInt("age2")),
    Toast.LENGTH_SHORT).show();
  }
  public void onClick(View view) {
    // use an Intent object to return data
    Intent i = new Intent();
    // use the putExtra() method to return some value
    i.putExtra("age3", 45);
    // use the setData() method to return some value
    i.setData(Uri.parse("Something passed back to main activity"));
    // set the result with OK and the Intent object
    setResult(RESULT_OK, i);
    // destroy the current activity
    finish();
  }
}
```

8. Tekan Shift+F9 (atau pilih Run > Debug) untuk men-debug aplikasi. Pilih salah satu Android Virtual Devices yang kalian inginkan. Hasil akhir ditunjukkan pada Figure

11, Figure 12, Figure 13, Figure 14, Figure 15, Figure 16, Figure 17, dan Figure 18.



Figure 11: Hasil Akhir (1)

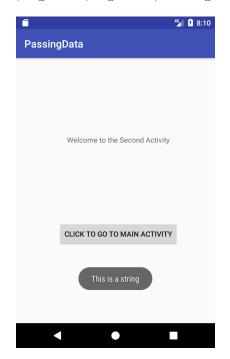


Figure 12: Hasil Akhir (2)

THE END

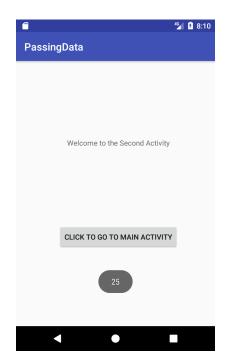


Figure 13: Hasil Akhir (1)

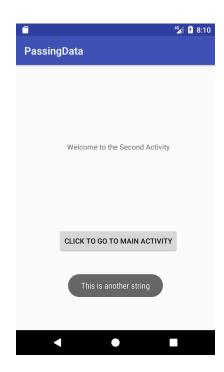


Figure 14: Hasil Akhir (2)

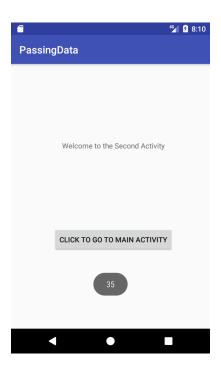


Figure 15: Hasil Akhir (1)



Figure 16: Hasil Akhir (2)

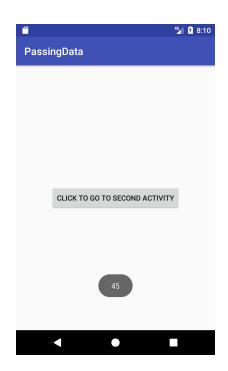


Figure 17: Hasil Akhir (1)

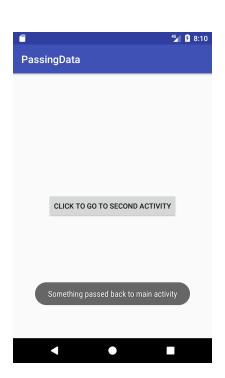


Figure 18: Hasil Akhir (2)