LAPORAN WORKSHOP APLIKASI MOBILE

MANAJEMEN FILE & SQLITE

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Hasil Praktikum:

   a. Manajemen File

      1. Mengubah source dibawah pada MainActivity.java

```java
package com.example.tugas07;

import ...

public class MainActivity extends AppCompatActivity {
    EditText editText;
    private int STORAGE_PERMISSION_CODE = 23;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editText = (EditText) findViewById(R.id.editText2);
    }

    public void next(View view) {
        Intent intent = new Intent( packageContext: MainActivity.this, MainActivity2.class);
        startActivity(intent);
    }

    public void savePublic(View view){
        ActivityCompat.requestPermissions( activity: this, new String[]{Manifest.permission.READ_EXTERNAL_STORAGE}, STORAGE_PERMISSION_CODE);
        String info = editText.getText().toString();
        File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
        File myFile = new File(folder, child: "myData1.txt");
        writeData(myFile, info);
        editText.setText("");
    }

    public void savePrivate(View view) {
        String info = editText.getText().toString();
        File folder = getExternalFilesDir( type: "syaifudin"); //folder nama
        File myFile = new File(folder, child: "myData2.txt");
```

```java
        writeData(myFile, info);
        editText.setText("");
    }

    private void writeData(File myFile, String data) {
        FileOutputStream fileOutputStream = null;
        try {
            System.out.println("YES");
            fileOutputStream = new FileOutputStream(myFile);
            fileOutputStream.write(data.getBytes());
            Toast.makeText( context: this, text: "Done" + myFile.getAbsolutePath(), Toast.LENGTH_SHORT).show();
        } catch (Exception e) {
            e.printStackTrace();
        } finally {
            if (fileOutputStream != null){
                try {
                    fileOutputStream.close();
                } catch (IOException e) {
                    e.printStackTrace();
                }
            }
        }
    }
}
```

      2. Menambahkan source dibawah pada MainActivity2.java

```java
package com.example.tugas07;

import ...

public class MainActivity2 extends AppCompatActivity {
    TextView showText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        showText = (TextView) findViewById(R.id.getText);
    }

    public void back(View view) {
        Intent intent = new Intent( packageContext: MainActivity2.this, MainActivity.class);
        startActivity(intent);
    }

    public void getPublic(View view){
        File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
        File myFile = new File(folder,  child: "myData1.txt");
        String text = getdata(myFile);
        if (text!=null){
            showText.setText(text);
        }else {
            showText.setText("No Data");
        }
    }

    public void getPrivate(View view) {
        File folder = getExternalFilesDir( type: "syaifudin"); //Folder Name
        File myFile = new File(folder,  child: "myData2.txt"); // File Nama
        String text = getdata(myFile);
        if (text != null) {
            showText.setText(text);
        } else {
            showText.setText("No Data");
        }
    }

    private String getdata(File myfile) {
        FileInputStream fileInputStream = null;
        try{
            fileInputStream = new FileInputStream(myfile);
            int i =-1;
            StringBuffer buffer = new StringBuffer();
                while ((i = fileInputStream.read()) != -1){
                    buffer.append((char) i);
                }
                return buffer.toString();
        }catch (Exception e) {
            e.printStackTrace();
        }finally {
            if (fileInputStream != null) {
                try {
                    fileInputStream.close();
                }catch (IOException e) {
                    e.printStackTrace();
                }
            }
        }
        return null;
    }
}
```

3. Mengubah source di bawah pada activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="16dp"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:paddingTop="16dp"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_marginTop="46dp"
        android:gravity="center"
        android:text="add text"
        android:textSize="18sp"
        android:textStyle="bold|italic" />
    <Button
        android:id="@+id/button4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/button"
        android:layout_alignParentBottom="true"
        android:layout_alignStart="@+id/button"
        android:layout_marginBottom="52dp"
        android:layout_marginLeft="96dp"
```

```xml
            android:layout_marginStart="96dp"
            android:onClick="next"
            android:text="Click tio View" />
    <Button
            android:id="@+id/button2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_above="@id/button4"
            android:layout_alignParentEnd="true"
            android:layout_marginBottom="22dp"
            android:layout_marginEnd="32dp"
            android:onClick="savePublic"
            android:text="Save as Public" />
    <Button
            android:id="@id/button"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignBaseline="@id/button2"
            android:layout_alignParentLeft="true"
            android:layout_alignParentStart="true"
            android:layout_marginLeft="24dp"
            android:layout_marginStart="24dp"
            android:onClick="savePrivate"
            android:text="Save as Private" />
    <EditText
            android:id="@+id/editText2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentLeft="true"
            android:layout_alignParentStart="true"
            android:layout_below="@+id/textView"
            android:layout_marginTop="16dp"
            android:ems="10"
            android:gravity="center_vertical|center"
            android:inputType="textMultiLine" />




</RelativeLayout>
```

4. Menambahkan source dibawah ini pada res ->value->dimens.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="activity_horizontal_margin">16dp</dimen>
    <dimen name="avtibity_vertical_margin">16dp</dimen>
</resources>
```

5. Merubah source di bawah pada res->value->color.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="colorPrimary">#3F51B5</color>
    <color name="colorPrimaryDark">#303F9F</color>
    <color name="colorAccent">#FF4081</color>
</resources>
```

6. Menambahkan source di bawah pada activity_main2.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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"
    android:paddingBottom="16dp"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:paddingTop="16dp"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/getText"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginTop="33dp"
        android:gravity="center"
        android:text=""
        android:textSize="18sp"
        android:textStyle="bold|italic" />

    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button5"
        android:layout_alignParentEnd="true"
        android:layout_alignParentRight="true"
        android:onClick="getPublic"
```

```
35      <Button
36          android:id="@+id/button2"
37          android:layout_width="wrap_content"
38          android:layout_height="wrap_content"
39          android:layout_alignParentLeft="true"
40          android:layout_alignParentStart="true"
41          android:layout_below="@+id/getText"
42          android:layout_marginTop="178dp"
43          android:onClick="getPrivate"
44          android:text="Show Private Data"
45          tools:ignore="unknownId" />
46
47      <Button
48          android:id="@+id/button5"
49          android:layout_width="wrap_content"
50          android:layout_height="wrap_content"
51          android:layout_below="@+id/button2"
52          android:layout_centerHorizontal="true"
53          android:layout_marginTop="59dp"
54          android:onClick="back"
55          android:text="Back" />
56
57  </RelativeLayout>
```

7. Menambahkan source di bawah pada res->value->string.xml

```
1   <resources>
2       <string name="app_name">Tugas07</string>
3       <string name="add_text">add text</string>
4       <string name="click_to_view">Click to View</string>
5       <string name="save_as_public">Save as Public</string>
6       <string name="save_as_private">Save as Private</string>
7       <string name="show_public_data">Show Public Data</string>
8       <string name="show_provate_data">Show Private Data</string>
9       <string name="back">Back</string>
10  </resources>
```
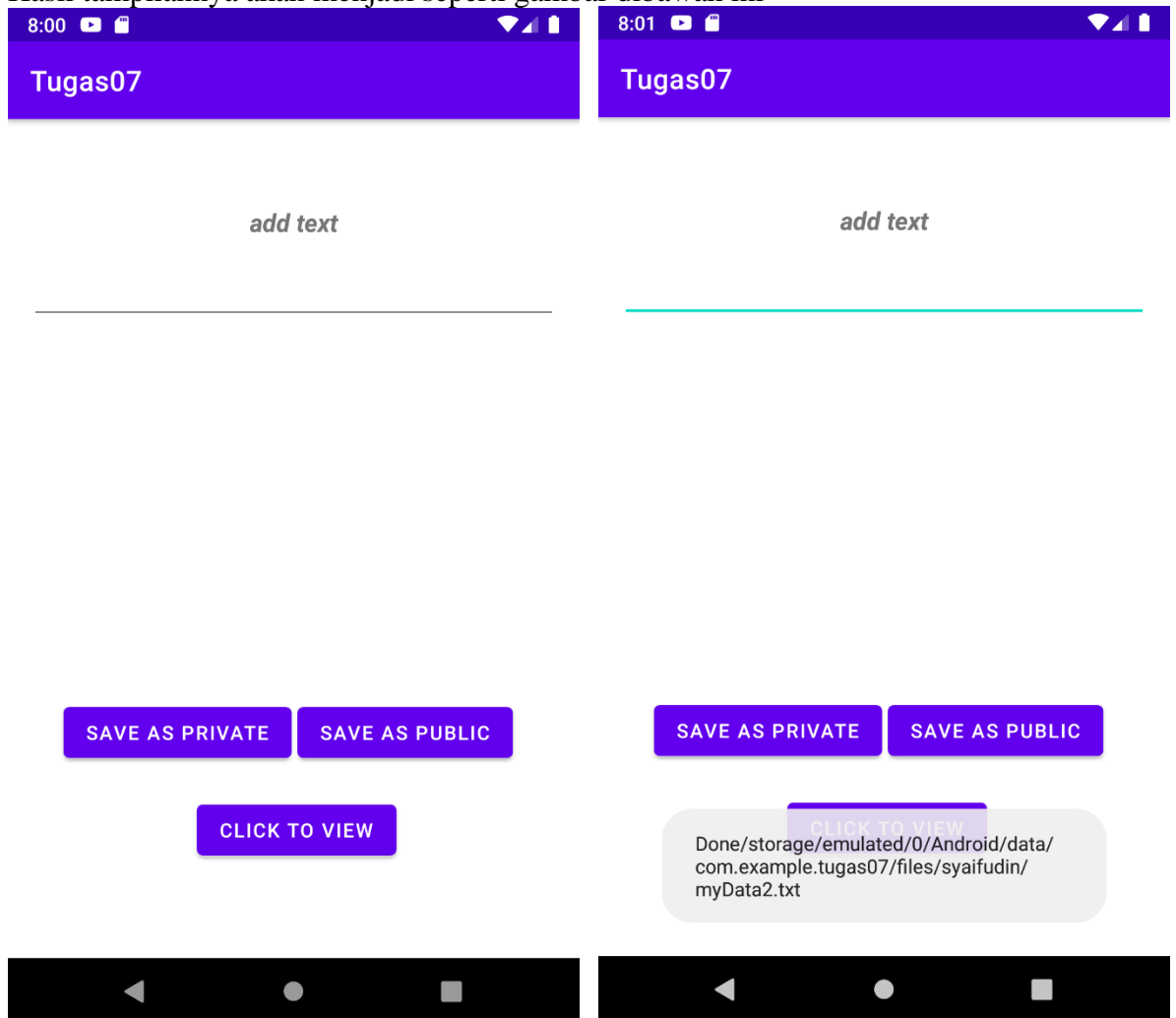
8. Menambahkan source di bawah pada AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.tugas07">
    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
    <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="Tugas07"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Tugas07">
        <activity android:name=".MainActivity2"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```
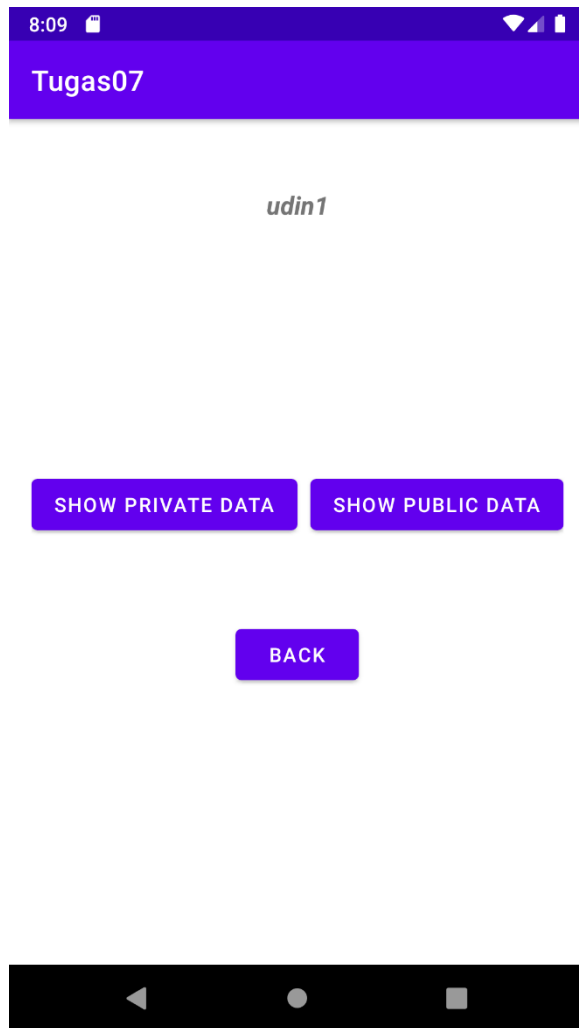
9. Hasil tampilannya akan menjadi seperti gambar dibawah ini

b. SQLite

1. Buat DataHelper.java, **DataHelper.java** ini adalah proses pembuatan Database SQLiteSimpan dengan Nama DataHelper.java.


```java
package com.example.tugas07_2;

import ...

public class DataHelper extends SQLiteOpenHelper {

    private static final String DATABASE_NAME = "biodatadiri.db";
    private static final int DATABASE_VERSION = 1;

    public DataHelper(Context context) { super(context, DATABASE_NAME, factory: null, DATABASE_VERSION); }

    @Override
    public void onCreate(SQLiteDatabase db) {
        String sql = "create table biodata (no integer primary key, nama text null, tgl text null, jk text null, alamat text null);";
        Log.d( tag: "Data", msg: "onCreate:" + sql);
        db.execSQL(sql);
        sql = "INSERT INTO biodata (no, nama, tgl, jk, alamat) VALUES ('1','Darsiwan', '1996-07-12', 'Laki-laki', 'Indramayu');";
        db.execSQL(sql);
    }

    @Override
    public void onUpgrade(SQLiteDatabase arg0, int arg1, int arg2) {
    }
}
```

2. Buat layout xml pada **activity_main.xml**

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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"
    android:paddingBottom="16dp"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:paddingTop="16dp"
    tools:context=".DataHelper">
    <ListView
        android:id="@+id/listView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_alignParentRight="true"
        android:layout_alignParentEnd="true"
        android:layout_above="@+id/button2"
        tools:ignore="UnknownId" />
    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        style="?android:attr/borderlessButtonStyle"
        android:drawableLeft="@drawable/ic_baseline_add_24"
        android:text="Buat Biodata Baru"
        android:textColor="@color/black"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"/>
</RelativeLayout>
```

3. Tuliskan source di bawah pada **MainActivity.java**

```java
package com.example.tugas07_2;

import ...

public class MainActivity extends AppCompatActivity {
    String[] daftar;
    ListView ListView01;
    Menu menu;
    protected Cursor cursor;
    DataHelper dbcenter;
    public static MainActivity ma;


    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        Button btn=(Button)findViewById(R.id.button2);
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0){
                Intent inte = new Intent( packageContext: MainActivity.this,BuatBiodata.class);
                startActivity(inte);
            }
        });

        ma = this;
        dbcenter = new DataHelper( context: this);
        RefreshList();
    }

    void RefreshList() {
        SQLiteDatabase db = dbcenter.getReadableDatabase();
        cursor = db.rawQuery( sql: "SELECT*FROM biodata", selectionArgs: null);
        daftar = new String[cursor.getCount()];
        cursor.moveToFirst();
        for (int cc=0; cc<cursor.getCount(); cc++){
            cursor.moveToPosition(cc);
            daftar[cc]=cursor.getString( columnIndex: 1).toString();
        }
        ListView01 = (ListView)findViewById(R.id.listView1);
        ListView01.setAdapter(new ArrayAdapter( context: this, android.R.layout.simple_list_item_1, daf
        ListView01.setSelected(true);

        ListView01.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView arg0, View arg1, int arg2, long arg3) {
                final String selection = daftar[arg2];
                final CharSequence[] dialogitem = {"Lihat Biodata","Update Biodata","Hapus Biodata"};
                AlertDialog.Builder builder = new AlertDialog.Builder( context: MainActivity.this);
                builder.setTitle("Pilihan");
                builder.setItems(dialogitem, new DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int item) {
                        switch (item){
                            case 0:
                                Intent i = new Intent(getApplicationContext(), LihatBiodata.class);
                                i.putExtra( name: "nama",selection);
                                startActivity(i);
                                break;
                            case 1:
                                Intent in = new Intent(getApplicationContext(), UpdateBiodata.class);
                                in.putExtra( name: "nama",selection);
                                startActivity(in);
                                break;
                            case 2:
```

```
81                                    SQLiteDatabase db = dbcenter.getWritableDatabase();
82                                    db.execSQL("delete from biodata where nama ='"+selection+"'");
83                                    RefreshList();
84                                    break;
85                            }
86                        }
87                    });
88                    builder.create().show();
89                }});
90            ((ArrayAdapter)ListView01.getAdapter()).notifyDataSetInvalidated();
91        }
92    }
```

4. Buat 3 Empty Activity baru, buat nama Layout sebagai berikut:
   - activity_buat_biodata.xml

```xml
1    <?xml version="1.0" encoding="utf-8"?>
2    <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3        xmlns:app="http://schemas.android.com/apk/res-auto"
4        xmlns:tools="http://schemas.android.com/tools"
5        android:layout_width="match_parent"
6        android:layout_height="match_parent"
7        android:paddingLeft="16dp"
8        android:paddingRight="16dp"
9        android:paddingBottom="16dp"
10       android:paddingTop="16dp"
11       tools:context=".BuatBiodata">
12
13       <EditText
14           android:id="@+id/editText1"
15           android:layout_width="match_parent"
16           android:layout_height="wrap_content"
17           android:layout_alignLeft="@+id/textView1"
18           android:layout_below="@+id/textView1"
19           android:inputType="number"
20           android:maxLength="10">
21           <requestFocus/>
22       </EditText>
23
24       <TextView
25           android:id="@+id/textView1"
26           android:layout_width="wrap_content"
27           android:layout_height="wrap_content"
28           android:layout_alignParentLeft="true"
29           android:layout_alignParentTop="true"
30           android:text="Nomor"/>
31       <TextView
32           android:id="@+id/textView2"
```

```xml
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText3"
        android:layout_below="@+id/editText3"
        android:layout_marginTop="10dp"
        android:text="Jenis Kelamin"/>
    <EditText
        android:id="@+id/editText4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView4"
        android:layout_below="@+id/textView4"
        android:inputType="text"
        android:maxLength="1"
        android:hint="L atau P"/>
    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText4"
        android:layout_below="@+id/editText4"
        android:layout_marginTop="10dp"
        android:text="Alamat"/>
    <EditText
        android:id="@+id/editText5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView5"
        android:layout_below="@+id/textView5"

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="10dp"
        android:text="Nama"/>
    <EditText
        android:id="@+id/editText2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView2"
        android:layout_below="@+id/textView2"
        android:inputType="text"
        android:maxLength="20"/>
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2"
        android:layout_below="@+id/editText2"
        android:layout_marginTop="10dp"
        android:text="Tanggal Lahir"/>
    <EditText
        android:id="@+id/editText3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView3"
        android:layout_below="@+id/textView3"
        android:inputType="date"/>
    <TextView
```

```
93          android:maxLength="100"
94          android:inputType="text"/>
95      <Button
96          android:id="@+id/button1"
97          android:layout_width="wrap_content"
98          android:layout_height="wrap_content"
99          android:layout_alignLeft="@+id/editText5"
100         android:layout_alignParentBottom="true"
101         style="?android:attr/borderlessButtonStyle"
102 ✓       android:drawableLeft="@drawable/ic_baseline_done_24"
103 ■       android:textColor="@color/black"
104         android:text="Simpan"/>
105     <Button
106         android:id="@+id/button2"
107         android:layout_width="wrap_content"
108         android:layout_height="wrap_content"
109 ■       android:textColor="@color/black"
110         android:text="Kembali"
111         style="?android:attr/borderlessButtonStyle"
112 <       android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
113         android:layout_alignParentBottom="true"
114         android:layout_alignRight="@+id/editText5"
115         android:layout_alignEnd="@+id/editText5"/>
116     |
117 </RelativeLayout>
```

- activity_lihat_biodata.xml

```
1   <?xml version="1.0" encoding="utf-8"?>
2   <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3       xmlns:app="http://schemas.android.com/apk/res-auto"
4       xmlns:tools="http://schemas.android.com/tools"
5       android:layout_width="match_parent"
6       android:layout_height="match_parent"
7       android:paddingTop="16dp"
8       android:paddingLeft="16dp"
9       android:paddingRight="16dp"
10      android:paddingBottom="16dp"
11      tools:context=".LihatBiodata">
12
13      <TextView
14          android:id="@+id/TextView01"
15          android:layout_width="wrap_content"
16          android:layout_height="wrap_content"
17          android:text="Nomor"
18          android:layout_marginTop="20dp"/>
19      <TextView
20          android:id="@+id/TextView02"
21          android:layout_width="wrap_content"
22          android:layout_height="wrap_content"
23          android:text="Nama"
24          android:layout_below="@+id/TextView01"
25          android:layout_alignLeft="@+id/TextView01"
26          android:layout_marginTop="20dp"/>
27      <TextView
28          android:id="@+id/TextView03"
29          android:layout_width="wrap_content"
30          android:layout_height="wrap_content"
31          android:text="Tanggal Lahir"
32          android:layout_below="@+id/TextView02"
```

```xml
                    android:layout_alignLeft="@+id/TextView02"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@+id/TextView04"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:text="Jenis Kelamin"
                    android:layout_below="@+id/TextView03"
                    android:layout_alignLeft="@+id/TextView03"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@+id/TextView05"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:text="Alamat"
                    android:layout_below="@+id/TextView04"
                    android:layout_alignLeft="@+id/TextView04"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@+id/textView1"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_alignParentTop="true"
                    android:layout_alignParentRight="true"
                    android:text="TextView"
                    android:layout_marginRight="104dp"
                    android:layout_marginTop="20dp" />
            <TextView
                    android:id="@+id/textView2"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_below="@+id/textView1"
                    android:layout_alignRight="@+id/textView1"
                    android:text="TextView"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@id/textView3"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_below="@id/textView2"
                    android:layout_alignRight="@id/textView2"
                    android:text="TextView"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@id/textView4"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_below="@id/textView3"
                    android:layout_alignRight="@id/textView3"
                    android:text="TextView"
                    android:layout_marginTop="20dp"/>
            <TextView
                    android:id="@id/textView5"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_below="@id/textView4"
                    android:layout_alignRight="@id/textView4"
                    android:text="TextView"
                    android:layout_marginTop="20dp"/>
            <Button
```

```
93              android:id="@+id/button1"
94              android:layout_width="wrap_content"
95              android:layout_height="wrap_content"
96              android:layout_alignLeft="@+id/TextView05"
97              android:layout_below="@id/TextView05"
98              android:layout_marginTop="34dp"
99              android:text="Kembali"
100             android:textColor="@color/black"
101             style="?android:attr/borderlessButtonStyle"
102             android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"/>
103
104     </RelativeLayout>
```

- activity_update_biodata.xml

```
1   <?xml version="1.0" encoding="utf-8"?>
2   <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3       xmlns:app="http://schemas.android.com/apk/res-auto"
4       xmlns:tools="http://schemas.android.com/tools"
5       android:layout_width="match_parent"
6       android:layout_height="match_parent"
7       android:paddingBottom="16dp"
8       android:paddingRight="16dp"
9       android:paddingTop="16dp"
10      android:paddingLeft="16dp"
11      tools:context=".UpdateBiodata">
12
13      <EditText
14          android:id="@+id/editText1"
15          android:layout_width="match_parent"
16          android:layout_height="wrap_content"
17          android:layout_alignLeft="@+id/textView1"
18          android:layout_below="@+id/textView1"
19          android:inputType="number"
20          android:maxLength="10">
21          <requestFocus/>
22      </EditText>
23      <TextView
24          android:id="@+id/textView1"
25          android:layout_width="wrap_content"
26          android:layout_height="wrap_content"
27          android:layout_alignParentLeft="true"
28          android:layout_alignParentTop="true"
29          android:text="Nomor"/>
30      <TextView
31          android:id="@+id/textView2"
32          android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/editText1"
            android:layout_below="@+id/editText1"
            android:layout_marginTop="10dp"
            android:text="Nama"/>
    <EditText
            android:id="@+id/editText2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/textView2"
            android:layout_below="@+id/textView2"
            android:inputType="text"
            android:maxLength="20"/>
    <TextView
            android:id="@id/textView3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/editText2"
            android:layout_below="@+id/editText2"
            android:layout_marginTop="10dp"
            android:text="Tanggal Lahir"/>
    <TextView
            android:id="@+id/editText3"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/textView3"
            android:layout_below="@+id/textView3"
            android:inputType="date"/>
    <TextView
            android:id="@+id/textView4"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@+id/editText3"
            android:layout_below="@+id/editText3"
            android:layout_marginTop="10dp"
            android:text="Jenis Kelamin"/>
    <EditText
            android:id="@id/editText4"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@id/textView4"
            android:layout_below="@id/textView4"
            android:inputType="text"
            android:maxLength="1"
            android:hint="L atau P"/>
    <TextView
            android:id="@id/textView5"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@id/editText4"
            android:layout_below="@id/editText4"
            android:layout_marginTop="10dp"
            android:text="Alamat"/>
    <EditText
            android:id="@id/editText5"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@id/textView5"
            android:layout_below="@id/textView5"
            android:maxLength="100"
```

```xml
                    android:inputType="text"/>
        <Button
            android:id="@id/button1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_alignLeft="@id/textView5"
            android:layout_alignParentBottom="true"
            style="?android:attr/borderlessButtonStyle"
            android:drawableLeft="@drawable/ic_baseline_done_24"
            android:textColor="@color/black"
            android:text="Update"/>
        <Button
            android:id="@id/button2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:textColor="@color/black"
            android:text="Kembali"
            style="?android:attr/borderlessButtonStyle"
            android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
            android:layout_alignParentBottom="true"
            android:layout_alignRight="@id/editText5"
            android:layout_alignEnd="@id/editText5"/>

</RelativeLayout>
```

- BuatBiodata.java

```java
package com.example.tugas07_2;

import ...

public class BuatBiodata extends AppCompatActivity {
    protected Cursor cursor;
    DataHelper dbHelper;
    Button ton1, ton2;
    EditText text1, text2, text3, text4, text5;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_buat_biodata);
        dbHelper = new DataHelper( context: this);
        text1 = (EditText) findViewById(R.id.editText1);
        text2 = (EditText) findViewById(R.id.editText2);
        text3 = (EditText) findViewById(R.id.editText3);
        text4 = (EditText) findViewById(R.id.editText4);
        text5 = (EditText) findViewById(R.id.editText5);
        ton1 = (Button) findViewById(R.id.button1);
        ton2 = (Button) findViewById(R.id.button2);

        ton1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                SQLiteDatabase db = dbHelper.getWritableDatabase();
                db.execSQL("insert into biodata(no, nama, tgl, jk, alamat) values('"+
                        text1.getText().toString() + "','" +
                        text2.getText().toString() + "','" +
                        text3.getText().toString() + "','" +
                        text4.getText().toString() + "','" +
                        text5.getText().toString() + "')");
                Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_SHORT).show();
                MainActivity.ma.RefreshList();
```

```
43                        MainActivity.ma.RefreshList();
44                        finish();
45                    }
46                });
47            ton2.setOnClickListener(new View.OnClickListener() {
48                @Override
49                public void onClick(View arg0) { finish(); }
52            });
53        }
54    }
```

- LihatBiodata.java

```java
1      package com.example.tugas07_2;
2
3      import ...
13
14     public class LihatBiodata extends AppCompatActivity {
15          protected Cursor cursor;
16          DataHelper dbHelper;
17          Button ton2;
18          TextView text1, text2, text3, text4, text5;
19
20          @Override
21          protected void onCreate(Bundle savedInstanceState) {
22              super.onCreate(savedInstanceState);
23              setContentView(R.layout.activity_lihat_biodata);
24              dbHelper = new DataHelper( context: this);
25              text1 = (TextView) findViewById(R.id.textView1);
26              text2 = (TextView) findViewById(R.id.textView2);
27              text3 = (TextView) findViewById(R.id.textView3);
28              text4 = (TextView) findViewById(R.id.textView4);
29              text5 = (TextView) findViewById(R.id.textView5);
30              SQLiteDatabase db= dbHelper.getReadableDatabase();
31              cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = '" +
32                      getIntent().getStringExtra( name: "nama") + "'", selectionArgs: null);
33              cursor.moveToFirst();
34              if (cursor.getCount()>0)
35              {
36                  cursor.moveToPosition(0);
37                  text1.setText (cursor.getString( columnIndex: 0).toString());
38                  text2.setText (cursor.getString( columnIndex: 1).toString());
39                  text3.setText (cursor.getString( columnIndex: 2).toString());
40                  text4.setText (cursor.getString( columnIndex: 3).toString());
41                  text5.setText (cursor.getString( columnIndex: 4).toString());
42              }
43              ton2 = (Button) findViewById(R.id.button1);

44              ton2.setOnClickListener(new View.OnClickListener() {
45                  @Override
46                  public void onClick(View arg0) { finish(); }
49              });
50          }
51      }
```

- UpdateBiodata.java

```java
package com.example.tugas07_2;

import ...

public class UpdateBiodata extends AppCompatActivity {
    protected Cursor cursor;
    DataHelper dbHelper;
    Button ton1, ton2;
    EditText text1, text2, text3, text4, text5;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update_biodata);
        dbHelper = new DataHelper( context: this);
        text1 = (EditText) findViewById(R.id.editText1);
        text2 = (EditText) findViewById(R.id.editText2);
        text3 = (EditText) findViewById(R.id.editText3);
        text4 = (EditText) findViewById(R.id.editText4);
        text5 = (EditText) findViewById(R.id.editText5);
        SQLiteDatabase db = dbHelper.getReadableDatabase();
        cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = '" +
                getIntent().getStringExtra( name: "nama") + "'", selectionArgs: null);
        cursor.moveToFirst();
        if (cursor.getCount() > 0) {
            cursor.moveToPosition(0);
            text1.setText(cursor.getString( columnIndex: 0).toString());
            text2.setText(cursor.getString( columnIndex: 1).toString());
            text3.setText(cursor.getString( columnIndex: 2).toString());
            text4.setText(cursor.getString( columnIndex: 3).toString());
            text5.setText(cursor.getString( columnIndex: 4).toString());
        }
        ton1 = (Button) findViewById(R.id.button1);
        ton2 = (Button) findViewById(R.id.button2);

        ton1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) {
                SQLiteDatabase db = dbHelper.getWritableDatabase();
                db.execSQL("update biodata set nama='" +
                        text2.getText().toString() + "', tgl='" +
                        text3.getText().toString() + "', jk='" +
                        text4.getText().toString() + "', alamat='" +
                        text5.getText().toString() + "' where no='" +
                        text1.getText().toString() + "'");
                Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_LONG).show();
                MainActivity.ma.RefreshList();
                finish();
            }
        });
        ton2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View arg0) { finish(); }
        });
    }
}
```

- Tambahan : edit manifest/AndroidManifest.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.tugas07_2">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="Tugas07_2"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Tugas07_2">
        <activity android:name=".UpdateBiodata" android:label="Form Biodata Baru"></activity>
        <activity android:name=".LihatBiodata" android:label="Lihat Biodata"></activity>
        <activity android:name=".BuatBiodata" android:label="Update Biodata"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

- Edit res/value/color.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#FFBB86FC</color>
    <color name="purple_500">#FF6200EE</color>
    <color name="purple_700">#FF3700B3</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="colorPrimary">#3F51B5</color>
    <color name="colorPrimaryDark">#303F9F</color>
    <color name="colorAccent">#000</color>
</resources>
```

- Tambahkan edit res/values/styles.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
        <item name="colorPrimary">@color/colorPrimary</item>
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
    </style>
</resources>
```
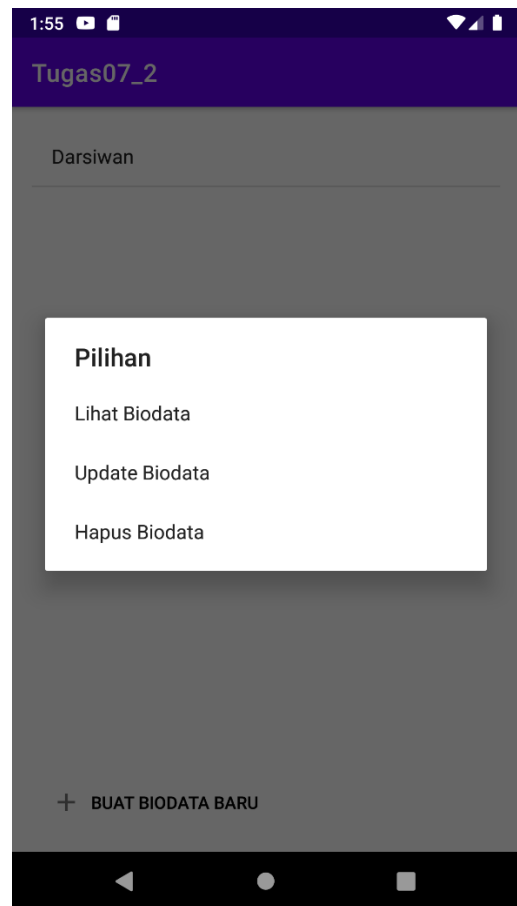
- Hasil tampilan aplikasinya akan menjadi seperti gambar berikut

Hasil Menu Utama

Hasil untuk pilihan

Update Biodata

Nomor

Nama

Tanggal Lahir

Jenis Kelamin
L atau P

Alamat

✓ SIMPAN   ‹ KEMBALI

Hasil Buat Biodata

Lihat Biodata

Nomor	1
Nama	Darsiwan
Tanggal Lahir	1996-07-12
Jenis Kelamin	Laki-laki
Alamat	Indramayu

‹ KEMBALI

Hasil Lihat Biodata

Update Biodata

Nomor

Nama

Tanggal Lahir

Jenis Kelamin
L atau P

Alamat

✓ SIMPAN   ‹ KEMBALI

Hasil Buat Biodata