

**LAPORAN WORKSHOP APLIKASI MOBILE**  
**MANAJEMEN FILE & SQLITE**



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## **Hasil Praktikum:**

### a. Manajemen File

#### 1. Mengubah source dibawah pada MainActivity.java

```
1 package com.example.tugas07;
2
3 import ...
4
5
6
7 public class MainActivity extends AppCompatActivity {
8     EditText editText;
9     private int STORAGE_PERMISSION_CODE = 23;
10
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_main);
15         editText = (EditText) findViewById(R.id.editText2);
16     }
17
18     public void next(View view) {
19         Intent intent = new Intent( packageContext: MainActivity.this, MainActivity2.class );
20         startActivity(intent);
21     }
22
23     public void savePublic(View view){
24         ActivityCompat.requestPermissions( activity: this, new String[]{Manifest.permission.READ_EXTERNAL_STORAGE}, STORAGE_PERMISSION_CODE );
25         String info = editText.getText().toString();
26         File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
27         File myFile = new File(folder, child: "myData1.txt");
28         writeData(myFile, info);
29         editText.setText("");
30     }
31
32     public void savePrivate(View view) {
33         String info = editText.getText().toString();
34         File folder = getExternalFilesDir( type: "syafudin" ); //folder name
35         File myFile = new File(folder, child: "myData2.txt");
36
37         writeData(myFile, info);
38         editText.setText("");
39     }
40
41
42     private void writeData(File myFile, String data) {
43         FileOutputStream fileOutputStream = null;
44         try {
45             System.out.println("YES");
46             fileOutputStream = new FileOutputStream(myFile);
47             fileOutputStream.write(data.getBytes());
48             Toast.makeText( context: this, text: "Done" + myFile.getAbsolutePath(), Toast.LENGTH_SHORT).show();
49         } catch (Exception e) {
50             e.printStackTrace();
51         } finally {
52             if (fileOutputStream != null){
53                 try {
54                     fileOutputStream.close();
55                 } catch (IOException e) {
56                     e.printStackTrace();
57                 }
58             }
59         }
60     }
61
62
63
64
65
66
67
68
69 }
```

#### 2. Menambahkan source dibawah pada MainActivity2.java

```
1 package com.example.tugas07;
2
3 import ...
4
5
6 public class MainActivity2 extends AppCompatActivity {
7     TextView showText;
8
9     @Override
10    protected void onCreate(Bundle savedInstanceState) {
11        super.onCreate(savedInstanceState);
12        setContentView(R.layout.activity_main2);
13        showText = (TextView) findViewById(R.id.getText);
14    }
15
16    public void back(View view) {
17        Intent intent = new Intent(packageContext: MainActivity2.this, MainActivity.class);
18        startActivity(intent);
19    }
20
21    public void getPublic(View view){
22        File folder = Environment.getExternalStoragePublicDirectory(Environment.DIRECTORY_DOWNLOADS);
23        File myFile = new File(folder, child: "myData1.txt");
24        String text = getdata(myFile);
25        if (text!=null){
26            showText.setText(text);
27        }else {
28            showText.setText("No Data");
29        }
30    }
31
32    public void getPrivate(View view) {
33        File folder = getExternalFilesDir( type: "syaifudin"); //Folder Name
34        File myFile = new File(folder, child: "myData2.txt"); // File Nama
35        String text = getdata(myFile);
36        if (text != null) {
37            showText.setText(text);
38        } else {
39            showText.setText("No Data");
40        }
41    }
42
43    private String getdata(File myfile) {
44        FileInputStream fileInputStream = null;
45        try{
46            fileInputStream = new FileInputStream(myfile);
47            int i =-1;
48            StringBuffer buffer = new StringBuffer();
49            while ((i = fileInputStream.read()) != -1){
50                buffer.append((char) i);
51            }
52            return buffer.toString();
53        }catch (Exception e) {
54            e.printStackTrace();
55        }finally {
56            if (fileInputStream != null) {
57                try {
58                    fileInputStream.close();
59                }catch (IOException e) {
60                    e.printStackTrace();
61                }
62            }
63        }
64        return null;
65    }
66}
```

3. Mengubah source di bawah pada activity\_main.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:id="@+id/activity_main"
6  |   android:layout_width="match_parent"
7  |   android:layout_height="match_parent"
8  |   android:paddingBottom="16dp"
9  |   android:paddingLeft="16dp"
10 |   android:paddingRight="16dp"
11 |   android:paddingTop="16dp"
12 |   tools:context=".MainActivity">
13 |
14 |   <TextView
15 |     android:id="@+id/textView"
16 |     android:layout_width="match_parent"
17 |     android:layout_height="wrap_content"
18 |     android:layout_alignParentTop="true"
19 |     android:layout_marginTop="46dp"
20 |     android:gravity="center"
21 |     android:text="add text"
22 |     android:textSize="18sp"
23 |     android:textStyle="bold|italic" />
24 |   <Button
25 |     android:id="@+id/button4"
26 |     android:layout_width="wrap_content"
27 |     android:layout_height="wrap_content"
28 |     android:layout_alignLeft="@+id/button"
29 |     android:layout_alignParentBottom="true"
30 |     android:layout_alignStart="@+id/button"
31 |     android:layout_marginBottom="52dp"
32 |     android:layout_marginLeft="96dp"
```

```
33     android:layout_marginStart="96dp"
34     android:onClick="next"
35     android:text="Click to View" />
36 <Button
37     android:id="@+id/button2"
38     android:layout_width="wrap_content"
39     android:layout_height="wrap_content"
40     android:layout_above="@id/button4"
41     android:layout_alignParentEnd="true"
42     android:layout_marginBottom="22dp"
43     android:layout_marginEnd="32dp"
44     android:onClick="savePublic"
45     android:text="Save as Public" />
46 <Button
47     android:id="@+id/button"
48     android:layout_width="wrap_content"
49     android:layout_height="wrap_content"
50     android:layout_alignBaseline="@+id/button2"
51     android:layout_alignParentLeft="true"
52     android:layout_alignParentStart="true"
53     android:layout_marginLeft="24dp"
54     android:layout_marginStart="24dp"
55     android:onClick="savePrivate"
56     android:text="Save as Private" />
57 <EditText
58     android:id="@+id/editText2"
59     android:layout_width="match_parent"
60     android:layout_height="wrap_content"
61     android:layout_alignParentLeft="true"
62     android:layout_alignParentStart="true"
63     android:layout_below="@+id/textView"
64     android:layout_marginTop="16dp"
65     android:ems="10"
66     android:gravity="center_vertical|center"
67     android:inputType="textMultiLine" />
68
69
70
71
72 </RelativeLayout>
```

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

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <dimen name="activity_horizontal_margin">16dp</dimen>
4     <dimen name="activity_vertical_margin">16dp</dimen>
5 </resources>
```

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

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <color name="purple_200">#FFBB86FC</color>
4     <color name="purple_500">#FF6200EE</color>
5     <color name="purple_700">#FF3700B3</color>
6     <color name="teal_200">#FF03DAC5</color>
7     <color name="teal_700">#FF018786</color>
8     <color name="black">#FF000000</color>
9     <color name="white">#FFFFFF</color>
10    <color name="colorPrimary">#3F51B5</color>
11    <color name="colorPrimaryDark">#303F9F</color>
12    <color name="colorAccent">#FF4081</color>
13 </resources>
```

6. Menambahkan source di bawah pada activity\_main2.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <c <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:paddingLeft="16dp"
9     android:paddingRight="16dp"
10    android:paddingTop="16dp"
11    tools:context=".MainActivity2">
12
13     <TextView
14         android:id="@+id/getText"
15         android:layout_width="match_parent"
16         android:layout_height="wrap_content"
17         android:layout_alignParentLeft="true"
18         android:layout_alignParentStart="true"
19         android:layout_marginTop="33dp"
20         android:gravity="center"
21         android:text=""
22         android:textSize="18sp"
23         android:textStyle="bold|italic" />
24
25     <Button
26         android:id="@+id/button3"
27         android:layout_width="wrap_content"
28         android:layout_height="wrap_content"
29         android:layout_above="@+id/button5"
30         android:layout_alignParentEnd="true"
31         android:layout_alignParentRight="true"
32         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_private_data">Show Private Data</string>  
9     <string name="back">Back</string>  
10 </resources>
```

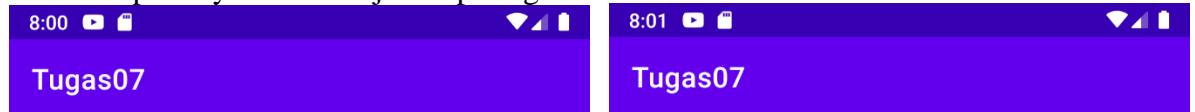
8. Menambahkan source di bawah pada AndroidManifest.xml

```

1  <?xml version="1.0" encoding="utf-8"?>
2  <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3      package="com.example.tugas07">
4          <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
5          <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE"/>
6
7      <application
8          android:allowBackup="true"
9          android:icon="@mipmap/ic_launcher"
10         android:label="Tugas07"
11         android:roundIcon="@mipmap/ic_launcher_round"
12         android:supportsRtl="true"
13         android:theme="@style/Theme_Tugas07">
14             <activity android:name=".MainActivity2"></activity>
15             <activity android:name=".MainActivity">
16                 <intent-filter>
17                     <action android:name="android.intent.action.MAIN" />
18
19                     <category android:name="android.intent.category.LAUNCHER" />
20                 </intent-filter>
21             </activity>
22         </application>
23
24     </manifest>

```

9. Hasil tampilannya akan menjadi seperti gambar dibawah ini



*add text*

*add text*

**SAVE AS PRIVATE**

**SAVE AS PUBLIC**

**SAVE AS PRIVATE**

**SAVE AS PUBLIC**

**CLICK TO VIEW**

**CLICK TO VIEW**  
Done/storage/emulated/0/Android/data/com.example.tugas07/files/syaifudin/myData2.txt



*udin1*

SHOW PRIVATE DATA      SHOW PUBLIC DATA

BACK



## b. SQLite

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

```
1  package com.example.tugas07_2;
2
3  import ...
4
5  public class DataHelper extends SQLiteOpenHelper {
6
7      private static final String DATABASE_NAME = "biodatadiri.db";
8      private static final int DATABASE_VERSION = 1;
9
10     public DataHelper(Context context) { super(context, DATABASE_NAME, null, DATABASE_VERSION); }
11
12     @Override
13     public void onCreate(SQLiteDatabase db) {
14         String sql = "create table biodata (no integer primary key, nama text null, tgl text null, jk text null, alamat text null);";
15         Log.d( tag: "Data", msg: "onCreate:" + sql);
16         db.execSQL(sql);
17         sql = "INSERT INTO biodata (no, nama, tgl, jk, alamat) VALUES ('1','Darsiwani', '1996-07-12', 'Laki-laki', 'Indramayu');";
18         db.execSQL(sql);
19     }
20
21     @Override
22     public void onUpgrade(SQLiteDatabase arg0, int arg1, int arg2) {
23
24     }
25
26
27
28
29 }
```

2. Buat layout xml pada **activity\_main.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:paddingLeft="16dp"
9      android:paddingRight="16dp"
10     android:paddingTop="16dp"
11     tools:context=".DataHelper">
12     <ListView
13         android:id="@+id/listView1"
14         android:layout_width="match_parent"
15         android:layout_height="wrap_content"
16         android:layout_alignParentTop="true"
17         android:layout_alignParentRight="true"
18         android:layout_alignParentEnd="true"
19         android:layout_above="@+id/button2"
20         tools:ignore="UnknownId" />
21     <Button
22         android:id="@+id/button2"
23         android:layout_width="wrap_content"
24         android:layout_height="wrap_content"
25         style="?android:attr/borderlessButtonStyle"
26         android:drawableLeft="@drawable/ic_baseline_add_24"
27         android:text="Buat Biodata Baru"
28         android:textColor="@color/black"
29         android:layout_alignParentBottom="true"
30         android:layout_alignParentLeft="true"
31         android:layout_alignParentStart="true"/>
32 </RelativeLayout>
```

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

```
1 package com.example.tugas07_2;
2
3 import ...
17
18 public class MainActivity extends AppCompatActivity {
19     String[] daftar;
20     ListView ListView01;
21     Menu menu;
22     protected Cursor cursor;
23     DataHelper dbcenter;
24     public static MainActivity ma;
25
26
27     @Override
28     protected void onCreate(Bundle savedInstanceState) {
29         super.onCreate(savedInstanceState);
30         setContentView(R.layout.activity_main);
31
32         Button btn=(Button)findViewById(R.id.button2);
33         btn.setOnClickListener(new View.OnClickListener() {
34             @Override
35             public void onClick(View arg0){
36                 Intent inte = new Intent( packageContext: MainActivity.this,BuatBiodata.class);
37                 startActivity(inte);
38             }
39         });
40
41         ma = this;
42         dbcenter = new DataHelper( context: this);
43         RefreshList();
44     }
45
46     void RefreshList() {
47         SQLiteDatabase db = dbcenter.getReadableDatabase();
48         cursor = db.rawQuery( sql: "SELECT*FROM biodata", selectionArgs: null);
49         daftar = new String[cursor.getCount()];
50         cursor.moveToFirst();
51         for (int cc=0; cc<cursor.getCount(); cc++){
52             cursor.moveToPosition(cc);
53             daftar[cc]=cursor.getString( columnIndex: 1).toString();
54         }
55         ListView01 = (ListView)findViewById(R.id.listView1);
56         ListView01.setAdapter(new ArrayAdapter( context: this, android.R.layout.simple_list_item_1, daf
57         ListView01.setSelected(true);
58
59         ListView01.setOnItemClickListener(new AdapterView.OnItemClickListener() {
60             @Override
61             public void onItemClick(AdapterView arg0, View arg1, int arg2, long arg3) {
62                 final String selection = daftar[arg2];
63                 final CharSequence[] dialogitem = {"Lihat Biodata","Update Biodata","Hapus Biodata"};
64                 AlertDialog.Builder builder = new AlertDialog.Builder( context: MainActivity.this);
65                 builder.setTitle("Pilihan");
66                 builder.setItems(dialogitem, new DialogInterface.OnClickListener() {
67                     @Override
68                     public void onClick(DialogInterface dialog, int item) {
69                         switch (item){
70                             case 0:
71                                 Intent i = new Intent(getApplicationContext(), LihatBiodata.class);
72                                 i.putExtra( name: "nama",selection);
73                                 startActivity(i);
74                                 break;
75                             case 1:
76                                 Intent in = new Intent(getApplicationContext(), UpdateBiodata.class);
77                                 in.putExtra( name: "nama",selection);
78                                 startActivity(in);
79                                 break;
80                             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()).notifyDataSetChanged();
91 }
92

```

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

- activity\_buat\_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: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"

```

```
63     android:id="@+id/textView4"
64     android:layout_width="wrap_content"
65     android:layout_height="wrap_content"
66     android:layout_alignLeft="@+id/editText3"
67     android:layout_below="@+id/editText3"
68     android:layout_marginTop="10dp"
69     android:text="Jenis Kelamin"/>
70 <EditText
71     android:id="@+id/editText4"
72     android:layout_width="match_parent"
73     android:layout_height="wrap_content"
74     android:layout_alignLeft="@+id/textView4"
75     android:layout_below="@+id/textView4"
76     android:inputType="text"
77     android:maxLength="1"
78     android:hint="L atau P"/>
79 <TextView
80     android:id="@+id/textView5"
81     android:layout_width="wrap_content"
82     android:layout_height="wrap_content"
83     android:layout_alignLeft="@+id/editText4"
84     android:layout_below="@+id/editText4"
85     android:layout_marginTop="10dp"
86     android:text="Alamat"/>
87 <EditText
88     android:id="@+id/editText5"
89     android:layout_width="match_parent"
90     android:layout_height="wrap_content"
91     android:layout_alignLeft="@+id/textView5"
92     android:layout_below="@+id/textView5"
93     android:layout_width="wrap_content"
94     android:layout_height="wrap_content"
95     android:layout_alignLeft="@+id/editText1"
96     android:layout_below="@+id/editText1"
97     android:layout_marginTop="10dp"
98     android:text="Nama"/>
99 <EditText
100    android:id="@+id/editText2"
101    android:layout_width="match_parent"
102    android:layout_height="wrap_content"
103    android:layout_alignLeft="@+id/textView2"
104    android:layout_below="@+id/textView2"
105    android:inputType="text"
106    android:maxLength="20"/>
107 <TextView
108     android:id="@+id/textView3"
109     android:layout_width="wrap_content"
110     android:layout_height="wrap_content"
111     android:layout_alignLeft="@+id/editText2"
112     android:layout_below="@+id/editText2"
113     android:layout_marginTop="10dp"
114     android:text="Tanggal Lahir"/>
115 <EditText
116     android:id="@+id/editText3"
117     android:layout_width="match_parent"
118     android:layout_height="wrap_content"
119     android:layout_alignLeft="@+id/textView3"
120     android:layout_below="@+id/textView3"
121     android:inputType="date"/>
122 <TextView
```

```
93     android:maxLength="100"
94     android:inputType="text"/>
95 
96     <Button
97         android:id="@+id/button1"
98         android:layout_width="wrap_content"
99         android:layout_height="wrap_content"
100        android:layout_alignLeft="@+id/editText5"
101        android:layout_alignParentBottom="true"
102        style="?android:attr/borderlessButtonStyle"
103        android:drawableLeft="@drawable/ic_baseline_done_24"
104        android:textColor="@color/black"
105        android:text="Simpan"/>
106 
107     <Button
108         android:id="@+id/button2"
109         android:layout_width="wrap_content"
110         android:layout_height="wrap_content"
111         android:textColor="@color/black"
112         android:text="Kembali"
113         style="?android:attr/borderlessButtonStyle"
114         android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
115         android:layout_alignParentBottom="true"
116         android:layout_alignRight="@+id/editText5"
117         android:layout_alignEnd="@+id/editText5"/>
118 
119     </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 
20     <TextView
21         android:id="@+id/TextView02"
22         android:layout_width="wrap_content"
23         android:layout_height="wrap_content"
24         android:text="Nama"
25         android:layout_below="@+id/TextView01"
26         android:layout_alignLeft="@+id/TextView01"
27         android:layout_marginTop="20dp"/>
28 
29     <TextView
30         android:id="@+id/TextView03"
31         android:layout_width="wrap_content"
32         android:layout_height="wrap_content"
33         android:text="Tanggal Lahir"
34         android:layout_below="@+id/TextView02"
```

```
33     android:layout_alignLeft="@+id/TextView02"
34     android:layout_marginTop="20dp"/>
35   <TextView
36     android:id="@+id/TextView04"
37     android:layout_width="wrap_content"
38     android:layout_height="wrap_content"
39     android:text="Jenis Kelamin"
40     android:layout_below="@+id/TextView03"
41     android:layout_alignLeft="@+id/TextView03"
42     android:layout_marginTop="20dp"/>
43   <TextView
44     android:id="@+id/TextView05"
45     android:layout_width="wrap_content"
46     android:layout_height="wrap_content"
47     android:text="Alamat"
48     android:layout_below="@+id/TextView04"
49     android:layout_alignLeft="@+id/TextView04"
50     android:layout_marginTop="20dp"/>
51   <TextView
52     android:id="@+id/textView1"
53     android:layout_width="wrap_content"
54     android:layout_height="wrap_content"
55     android:layout_alignParentTop="true"
56     android:layout_alignParentRight="true"
57     android:text="TextView"
58     android:layout_marginRight="104dp"
59     android:layout_marginTop="20dp" />
60   <TextView
61     android:id="@+id/textView2"
62     android:layout_width="wrap_content"
```

```
63     android:layout_height="wrap_content"
64     android:layout_below="@+id/textView1"
65     android:layout_alignRight="@+id/textView1"
66     android:text="TextView"
67     android:layout_marginTop="20dp"/>
68   <TextView
69     android:id="@+id/textView3"
70     android:layout_width="wrap_content"
71     android:layout_height="wrap_content"
72     android:layout_below="@+id/textView2"
73     android:layout_alignRight="@+id/textView2"
74     android:text="TextView"
75     android:layout_marginTop="20dp"/>
76   <TextView
77     android:id="@+id/textView4"
78     android:layout_width="wrap_content"
79     android:layout_height="wrap_content"
80     android:layout_below="@+id/textView3"
81     android:layout_alignRight="@+id/textView3"
82     android:text="TextView"
83     android:layout_marginTop="20dp"/>
84   <TextView
85     android:id="@+id/textView5"
86     android:layout_width="wrap_content"
87     android:layout_height="wrap_content"
88     android:layout_below="@+id/textView4"
89     android:layout_alignRight="@+id/textView4"
90     android:text="TextView"
91     android:layout_marginTop="20dp"/>
92   <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"
```

```
33     android:layout_height="wrap_content"
34     android:layout_alignLeft="@+id/editText1"
35     android:layout_below="@+id/editText1"
36     android:layout_marginTop="10dp"
37     android:text="Nama"/>
38 <EditText
39     android:id="@+id/editText2"
40     android:layout_width="match_parent"
41     android:layout_height="wrap_content"
42     android:layout_alignLeft="@+id/textView2"
43     android:layout_below="@+id/textView2"
44     android:inputType="text"
45     android:maxLength="20"/>
46 <TextView
47     android:id="@+id/textView3"
48     android:layout_width="wrap_content"
49     android:layout_height="wrap_content"
50     android:layout_alignLeft="@+id/editText2"
51     android:layout_below="@+id/editText2"
52     android:layout_marginTop="10dp"
53     android:text="Tanggal Lahir"/>
54 <TextView
55     android:id="@+id/editText3"
56     android:layout_width="match_parent"
57     android:layout_height="wrap_content"
58     android:layout_alignLeft="@+id/textView3"
59     android:layout_below="@+id/textView3"
60     android:inputType="date"/>
61 <TextView
62     android:id="@+id/textView4"
63     android:layout_width="wrap_content"
64     android:layout_height="wrap_content"
65     android:layout_alignLeft="@+id/editText3"
66     android:layout_below="@+id/editText3"
67     android:layout_marginTop="10dp"
68     android:text="Jenis Kelamin"/>
69 <EditText
70     android:id="@+id/editText4"
71     android:layout_width="match_parent"
72     android:layout_height="wrap_content"
73     android:layout_alignLeft="@+id/textView4"
74     android:layout_below="@+id/textView4"
75     android:inputType="text"
76     android:maxLength="1"
77     android:hint="L atau P"/>
78 <TextView
79     android:id="@+id/textView5"
80     android:layout_width="wrap_content"
81     android:layout_height="wrap_content"
82     android:layout_alignLeft="@+id/editText4"
83     android:layout_below="@+id/editText4"
84     android:layout_marginTop="10dp"
85     android:text="Alamat"/>
86 <EditText
87     android:id="@+id/editText5"
88     android:layout_width="match_parent"
89     android:layout_height="wrap_content"
90     android:layout_alignLeft="@+id/textView5"
91     android:layout_below="@+id/textView5"
92     android:maxLength="100"
```

```
93         android:inputType="text" />
94
95     <Button
96         android:id="@+id/button1"
97         android:layout_width="wrap_content"
98         android:layout_height="wrap_content"
99         android:layout_alignLeft="@+id/textView5"
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="Update" />
105
106    <Button
107        android:id="@+id/button2"
108        android:layout_width="wrap_content"
109        android:layout_height="wrap_content"
110        android:textColor="@color/black"
111        android:text="Kembali"
112        style="?android:attr/borderlessButtonStyle"
113        android:drawableLeft="@drawable/ic_baseline_arrow_back_ios_24"
114        android:layout_alignParentBottom="true"
115        android:layout_alignRight="@+id/editText5"
116        android:layout_alignEnd="@+id/editText5" />
117
118    </RelativeLayout>
```

- BuatBiodata.java

```
1 package com.example.tugas07_2;
2
3 import ...
4
5
6 public class BuatBiodata extends AppCompatActivity {
7     protected Cursor cursor;
8     DataHelper dbHelper;
9     Button ton1, ton2;
10    EditText text1, text2, text3, text4, text5;
11
12    @Override
13    protected void onCreate(Bundle savedInstanceState) {
14        super.onCreate(savedInstanceState);
15        setContentView(R.layout.activity_buat_biodata);
16        dbHelper = new DataHelper(context: this);
17        text1 = (EditText) findViewById(R.id.editText1);
18        text2 = (EditText) findViewById(R.id.editText2);
19        text3 = (EditText) findViewById(R.id.editText3);
20        text4 = (EditText) findViewById(R.id.editText4);
21        text5 = (EditText) findViewById(R.id.editText5);
22        ton1 = (Button) findViewById(R.id.button1);
23        ton2 = (Button) findViewById(R.id.button2);
24
25        ton1.setOnClickListener(new View.OnClickListener() {
26            @Override
27            public void onClick(View arg0) {
28                SQLiteDatabase db = dbHelper.getWritableDatabase();
29                db.execSQL("insert into biodata(no, nama, tgl, jk, alamat) values('"+
30                    text1.getText().toString() + "','" +
31                    text2.getText().toString() + "','" +
32                    text3.getText().toString() + "','" +
33                    text4.getText().toString() + "','" +
34                    text5.getText().toString() + "')");
35                Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_SHORT).show();
36                MainActivity.ma.RefreshList();
37            }
38        });
39    }
40}
```

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

- LihatBiodata.java

```
1 package com.example.tugas07_2;
2
3 import ...
4
5 public class LihatBiodata extends AppCompatActivity {
6     protected Cursor cursor;
7     DataHelper dbHelper;
8     Button ton2;
9     TextView text1, text2, text3, text4, text5;
10
11    @Override
12    protected void onCreate(Bundle savedInstanceState) {
13        super.onCreate(savedInstanceState);
14        setContentView(R.layout.activity_lihat_biodata);
15        dbHelper = new DataHelper( context: this);
16        text1 = (TextView) findViewById(R.id.textView1);
17        text2 = (TextView) findViewById(R.id.textView2);
18        text3 = (TextView) findViewById(R.id.textView3);
19        text4 = (TextView) findViewById(R.id.textView4);
20        text5 = (TextView) findViewById(R.id.textView5);
21        SQLiteDatabase db= dbHelper.getReadableDatabase();
22        cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = '" +
23            getIntent().getStringExtra( name: "nama") + "'", selectionArgs: null);
24        cursor.moveToFirst();
25        if (cursor.getCount()>0)
26        {
27            cursor.moveToPosition(0);
28            text1.setText (cursor.getString( columnIndex: 0).toString());
29            text2.setText (cursor.getString( columnIndex: 1).toString());
30            text3.setText (cursor.getString( columnIndex: 2).toString());
31            text4.setText (cursor.getString( columnIndex: 3).toString());
32            text5.setText (cursor.getString( columnIndex: 4).toString());
33        }
34        ton2 = (Button) findViewById(R.id.button1);
35
36    ton2.setOnClickListener(new View.OnClickListener() {
37        @Override
38        public void onClick(View arg0) { finish(); }
39    });
40 }
```

- UpdateBiodata.java

```
1 package com.example.tugas07_2;
2
3 import ...
4
5
6 public class UpdateBiodata extends AppCompatActivity {
7     protected Cursor cursor;
8     DataHelper dbHelper;
9     Button ton1, ton2;
10    EditText text1, text2, text3, text4, text5;
11
12    @Override
13    protected void onCreate(Bundle savedInstanceState) {
14        super.onCreate(savedInstanceState);
15        setContentView(R.layout.activity_update_biodata);
16        dbHelper = new DataHelper( context: this );
17        text1 = (EditText) findViewById(R.id.editText1);
18        text2 = (EditText) findViewById(R.id.editText2);
19        text3 = (EditText) findViewById(R.id.editText3);
20        text4 = (EditText) findViewById(R.id.editText4);
21        text5 = (EditText) findViewById(R.id.editText5);
22        SQLiteDatabase db = dbHelper.getReadableDatabase();
23        cursor = db.rawQuery( sql: "SELECT * FROM biodata WHERE nama = " +
24            getIntent().getStringExtra( name: "nama") + " ", selectionArgs: null );
25        cursor.moveToFirst();
26        if (cursor.getCount() > 0) {
27            cursor.moveToPosition(0);
28            text1.setText(cursor.getString( columnIndex: 0).toString());
29            text2.setText(cursor.getString( columnIndex: 1).toString());
30            text3.setText(cursor.getString( columnIndex: 2).toString());
31            text4.setText(cursor.getString( columnIndex: 3).toString());
32            text5.setText(cursor.getString( columnIndex: 4).toString());
33        }
34        ton1 = (Button) findViewById(R.id.button1);
35        ton2 = (Button) findViewById(R.id.button2);
36
37        ton1.setOnClickListener(new View.OnClickListener() {
38            @Override
39            public void onClick(View arg0) {
40                SQLiteDatabase db = dbHelper.getWritableDatabase();
41                db.execSQL("update biodata set nama= " +
42                    text2.getText().toString() + ", tgl= " +
43                    text3.getText().toString() + ", jk= " +
44                    text4.getText().toString() + ", alamat= " +
45                    text5.getText().toString() + " where no= " +
46                    text1.getText().toString() + " ");
47                Toast.makeText(getApplicationContext(), text: "Berhasil", Toast.LENGTH_LONG).show();
48                MainActivity.ma.RefreshList();
49                finish();
50            }
51        });
52        ton2.setOnClickListener(new View.OnClickListener() {
53            @Override
54            public void onClick(View arg0) { finish(); }
55        });
56    }
57}
58
59
60
61
62
63
64
65
66
67}
```

- Tambahan : edit manifest/AndroidManifest.xml

```

1   <?xml version="1.0" encoding="utf-8"?>
2   <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3       package="com.example.tugas07_2">
4
5       <application
6           android:allowBackup="true"
7           android:icon="@mipmap/ic_launcher"
8           android:label="Tugas07_2"
9           android:roundIcon="@mipmap/ic_launcher_round"
10          android:supportsRtl="true"
11          android:theme="@style/Theme.Tugas07_2">
12              <activity android:name=".UpdateBiodata" android:label="Form Biodata Baru"></activity>
13              <activity android:name=".LihatBiodata" android:label="Lihat Biodata"></activity>
14              <activity android:name=".BuatBiodata" android:label="Update Biodata"></activity>
15              <activity android:name=".MainActivity">
16                  <intent-filter>
17                      <action android:name="android.intent.action.MAIN" />
18
19                      <category android:name="android.intent.category.LAUNCHER" />
20                  </intent-filter>
21              </activity>
22          </application>
23
24      </manifest>

```

- Edit res/value/color.xml

```

1   <?xml version="1.0" encoding="utf-8"?>
2   <resources>
3       <color name="purple_200">#FFBB86FC</color>
4       <color name="purple_500">#FF6200EE</color>
5       <color name="purple_700">#FF3700B3</color>
6       <color name="teal_200">#FF03DAC5</color>
7       <color name="teal_700">#FF018786</color>
8       <color name="black">#FF000000</color>
9       <color name="white">#FFFFFF</color>
10      <color name="colorPrimary">#3F51B5</color>
11      <color name="colorPrimaryDark">#303F9F</color>
12      <color name="colorAccent">#000</color>
13  </resources>

```

- Tambahkan edit res/values/styles.xml

```

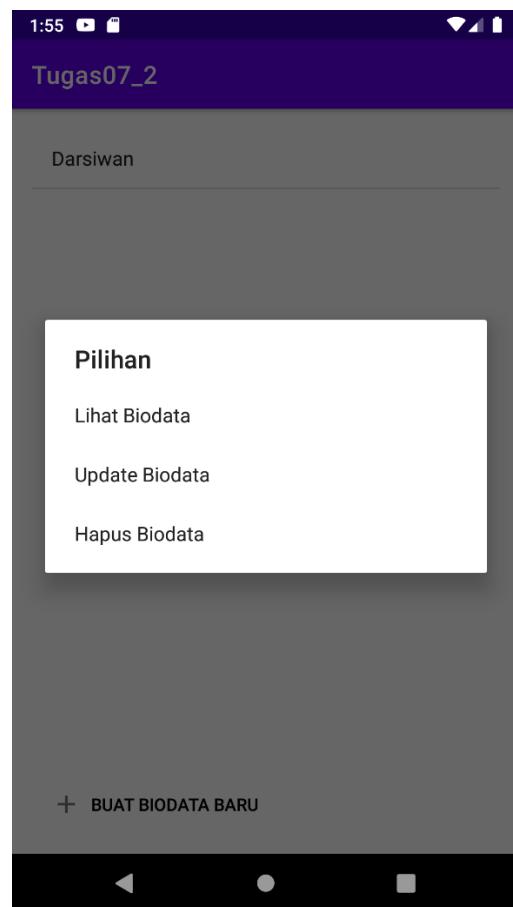
1   <?xml version="1.0" encoding="utf-8"?>
2   <resources>
3       <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
4           <item name="colorPrimary">@color/colorPrimary</item>
5           <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
6           <item name="colorAccent">@color/colorAccent</item>
7       </style>
8   </resources>

```

- Hasil tampilan aplikasinya akan menjadi seperti gambar berikut



**Hasil Menu Utama**



**Hasil untuk pilihan**

1:57

### Update Biodata

Nomor

---

Nama

---

Tanggal Lahir

---

Jenis Kelamin

L atau P

---

Alamat

---

✓ SIMPAN

◀ KEMBALI

2:00

### Lihat Biodata

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

◀ KEMBALI

1:57

### Hasil Buat Biodata

### Update Biodata

Nomor

---

Nama

---

Tanggal Lahir

---

Jenis Kelamin

L atau P

---

Alamat

---

✓ SIMPAN

◀ KEMBALI

Hasil Lihat Biodata

Hasil Buat Biodata

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