

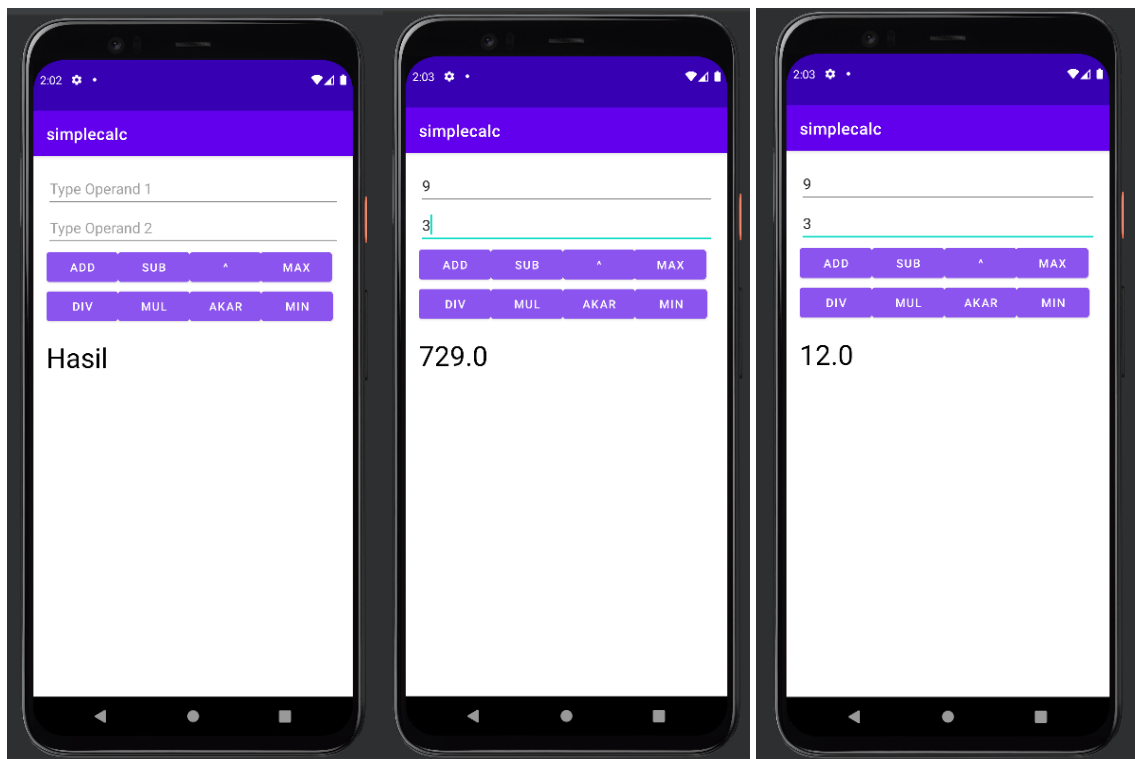
Mata Kuliah : Pemrograman Mobile – TI – S1

Pertemuan : Minggu 3

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1. App SimpleCalc



- MainActivity.java

```
package com.example.simplecalc;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    private EditText n1, n2;
    private TextView txtHasil;
    private float nil1, nil2, hasil;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        n1=findViewById(R.id.operand_one_edit_text);
        n2=findViewById(R.id.operand_two_edit_text);
        txtHasil=findViewById(R.id.operation_result_text_view);
    }

    public void onAdd(View view){
        try {
            nil1 = Float.parseFloat(n1.getText().toString());
            nil2 = Float.parseFloat(n2.getText().toString());
            hasil = nil1+nil2;
            txtHasil.setText(Float.toString(hasil));
        }
        catch (Exception err) {
            Log.e(null, "error" + err);
        }
    }

    public void onSub(View view){
        try {
            nil1 = Float.parseFloat(n1.getText().toString());
            nil2 = Float.parseFloat(n2.getText().toString());
            hasil = nil1-nil2;
            txtHasil.setText(Float.toString(hasil));
        }
        catch (Exception err) {
            Log.e(null, "error" + err);
        }
    }

    public void onDiv(View view){
        try {
            nil1 = Float.parseFloat(n1.getText().toString());
            nil2 = Float.parseFloat(n2.getText().toString());
            hasil = nil1/nil2;
            txtHasil.setText(Float.toString(hasil));
        }
        catch (Exception err) {
            Log.e(null, "error" + err);
        }
    }

    public void onMul(View view){
        try {
            nil1 = Float.parseFloat(n1.getText().toString());
            nil2 = Float.parseFloat(n2.getText().toString());
            hasil = nil1*nil2;
            txtHasil.setText(Float.toString(hasil));
        }
        catch (Exception err) {
            Log.e(null, "error" + err);
        }
    }

    public void btn_pangkat(View view){
        try {
            nil1 = Float.parseFloat(n1.getText().toString());
            nil2 = Float.parseFloat(n2.getText().toString());

            double hsl = Math.pow(nil1,nil2);
            txtHasil.setText(Double.toString(hsl));
        }
    }

```

```

    }
    catch (Exception err) {
        Toast.makeText(getApplicationContext(),
            "Error..." + err, Toast.LENGTH_SHORT).show();
    }
}

public void btn_xxx(View view) {
    try {
        nil1 = Float.parseFloat(n1.getText().toString());
        nil2 = Float.parseFloat(n2.getText().toString());
        double hsl = Math.max(nil1, nil2);
        txtHasil.setText(Double.toString(hsl));
    }
    catch (Exception err) {
        Log.e(null, "error" + err);
    }
}

public void btn_yyy(View view) {
    try {
        nil1 = Float.parseFloat(n1.getText().toString());
        nil2 = Float.parseFloat(n2.getText().toString());
        double hsl = Math.min(nil1, nil2);
        txtHasil.setText(Double.toString(hsl));
    }
    catch (Exception err) {
        Log.e(null, "error" + err);
    }
}

public void btn_akar(View view) {
    try {
        nil1 = Float.parseFloat(n1.getText().toString());
        nil2 = Float.parseFloat(n2.getText().toString());
        double hsl = Math.sqrt(nil1);
        txtHasil.setText(Double.toString(hsl));
    }
    catch (Exception err) {
        Log.e(null, "error" + err);
    }
}
}
}

```

- Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <EditText
        android:id="@+id/operand_one_edit_text"

```

```

        android:layout_width="match_parent"

        android:layout_height="wrap_content"
        android:hint="@string/type_operand_one_hint"
        android:inputType="numberDecimal|numberSigned"
        android:minHeight="48dp" />
<EditText
    android:id="@+id/operand_two_edit_text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="@string/type_operand_two_hint"
    android:inputType="numberDecimal|numberSigned"
    android:minHeight="48dp" />
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <Button
        android:id="@+id/operation_add_btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="onAdd"
        android:backgroundTint="@color/pink"
        android:text="@string/add_operation_text" />
    <Button
        android:id="@+id/operation_sub_btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_toEndOf="@id/operation_add_btn"
        android:layout_toRightOf="@id/operation_add_btn"
        android:onClick="onSub"
        android:backgroundTint="@color/pink"
        android:text="@string/sub_operation_text" />
    <Button
        android:id="@+id/operation_div_btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/operation_add_btn"
        android:onClick="onDiv"
        android:backgroundTint="@color/pink"
        android:text="@string/div_operation_text" />
    <Button
        android:id="@+id/operation_mul_btn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/operation_add_btn"
        android:layout_toEndOf="@id/operation_add_btn"
        android:layout_toRightOf="@id/operation_add_btn"
        android:onClick="onMul"
        android:backgroundTint="@color/pink"
        android:text="@string/mul_operation_text" />
    <Button
        android:id="@+id/btn_pangkat"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="0dp"
        android:layout_toRightOf="@id/operation_sub_btn"
        android:backgroundTint="@color/pink"

```

```

        android:onClick="btn_pangkat"
        android:text="^" />
<Button
    android:id="@+id/btn_xxx"

    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="-1dp"
    android:layout_toRightOf="@id/btn_pangkat"
    android:backgroundTint="@color/pink"
    android:onClick="btn_xxx"
    android:text="Max" />
<Button
    android:id="@+id/btn_akar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/btn_pangkat"
    android:layout_toRightOf="@id/operation_mul_btn"
    android:onClick="btn_akar"
    android:backgroundTint="@color/pink"
    android:text="Akar" />
<Button
    android:id="@+id/btn_yyy"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/btn_xxx"
    android:layout_toRightOf="@id/btn_akar"
    android:backgroundTint="@color/pink"
    android:onClick="btn_yyy"
    android:text="Min" />
</RelativeLayout>
<TextView android:id="@+id/operation_result_text_view"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="@dimen/activity_vertical_margin"
    android:text="Hasil"
    android:textColor="@color/black"
    android:textSize="15pt"/>
</LinearLayout>

```

- Dimens.xml

```

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

```

- Colors.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">#FFFFFFF</color>
<color name="biru">#0C2EED</color>
<color name="merah">#EF0707</color>
<color name="hijau">#0AE813</color>
<color name="kuning">#F1DD2E</color>
<color name="pink">#8C54EF</color>
<color name="coklat">#ECBC77</color>
</resources>

```

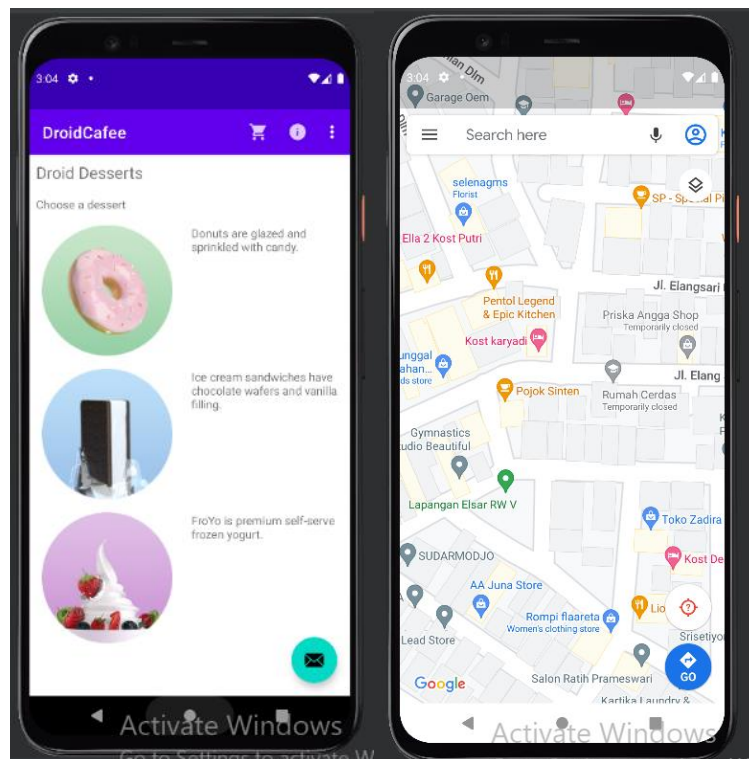
- Strings.xml

```

<resources>
    <string name="app_name">simplecalc</string>
    <string name="type_operand_one_hint">Type Operand
1</string>
    <string name="type_operand_two_hint">Type Operand
2</string>
    <string name="add_operation_text">Add</string>
    <string name="sub_operation_text">Sub</string>
    <string name="div_operation_text">Div</string>
    <string name="mul_operation_text">Mul</string>
    <string name="computationError">Error</string>
</resources>

```

2. App Droid Café



- AndroidManifest.xml

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.DroidCafe"
        tools:targetApi="31">
        <activity
            android:name=".OrderActivity"
            android:exported="false" />
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:label="@string/app_name"
            android:theme="@style/Theme.DroidCafe.NoActionBar">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

</manifest>
```

- FirstFragment.java

```
package com.example.droidcafe;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.navigation.fragment.NavHostFragment;

import com.example.droidcafe.databinding.FragmentFirstBinding;

public class FirstFragment extends Fragment {

    private FragmentFirstBinding binding;

    @Override
    public View onCreateView(
```

```

        LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState
    ) {

        binding = FragmentFirstBinding.inflate(inflater, container, false);
        return binding.getRoot();

    }

    public void onViewCreated(@NonNull View view, Bundle savedInstanceState)
    {
        super.onViewCreated(view, savedInstanceState);

        binding.buttonFirst.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                NavHostFragment.findNavController(FirstFragment.this)
                    .navigate(R.id.action_FirstFragment_to_SecondFragment);
            }
        });
    }

    @Override
    public void onDestroyView() {
        super.onDestroyView();
        binding = null;
    }
}

```

- MainActivity.java

```

package com.example.droidcafe;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;

import com.google.android.material.snackbar.Snackbar;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;

import androidx.appcompat.widget.Toolbar;
import androidx.navigation.NavController;
import androidx.navigation.Navigation;
import androidx.navigation.ui.AppBarConfiguration;
import androidx.navigation.ui.NavigationUI;

import com.example.droidcafe.databinding.ActivityMainBinding;

import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

```



```

public class MainActivity extends AppCompatActivity {
    private AppBarConfiguration appBarConfiguration;
    private ActivityMainBinding binding;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        switch (item.getItemId()) {
            case R.id.action_order:
                displayToast(getString(R.string.action_order_message));
                return true;
            case R.id.action_status:
                displayToast(getString(R.string.action_status_message));
                return true;
            case R.id.action_favorites:
                displayToast(getString(R.string.action_favorites_message));
                return true;
            case R.id.action_contact:
                displayToast(getString(R.string.action_contact_message));
                return true;
            default:
                // Do nothing
        }
        return super.onOptionsItemSelected(item);
    }

    public void displayToast(String message){
        Toast.makeText(getApplicationContext(), message,
Toast.LENGTH_SHORT).show();
    }

    public void showDonutOrder(View view){
        showFoodOrder(getString(R.string.donut_order_message));
    }
    public void showIceCreamOrder(View view){
        showFoodOrder(getString(R.string.ice_cream_message));
    }
    public void showFroyoOrder(View view){
        showFoodOrder(getString(R.string.froyo_order_message));
    }
    public void showFoodOrder(String message){
        displayToast(message);
        Intent intent = new Intent(this, OrderActivity.class);
        startActivity(intent);
    }
}

```

```

        public void gmaps(View view) {
            Uri gmmIntentUri = Uri.parse("https://www.google.co.id/maps/@-7.0343867,110.4623388,19z");
            Intent mapIntent = new Intent(Intent.ACTION_VIEW, gmmIntentUri);
            mapIntent.setPackage("com.google.android.apps.maps");
            startActivity(mapIntent);
        }
    }
}

```

- OrderActivity.java

```

package com.example.droidcafe;

import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.RadioButton;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class OrderActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_order);
    }
    private static final String TAG_ACTIVITY =
OrderActivity.class.getSimpleName();
    public void onRadioButtonClicked(View view) {
        boolean checked = ((RadioButton) view).isChecked();
        switch (view.getId()) {
            case R.id.sameday:
                if (checked)
                    displayToast(getString(R.string.chosen) +
                                getString(R.string.same_day_messenger_service));

                break;
            case R.id.nextday:
                if (checked)
                    displayToast(getString(R.string.chosen) +
                                getString(R.string.next_day_ground_delivery));

                break;
            case R.id.pickup:
                if (checked)
                    displayToast(getString(R.string.chosen) +
                                getString(R.string.pick_up));
                break;
            default:
                Log.d(TAG_ACTIVITY, getString(R.string.nothing_clicked));
                break;
        }
    }
}

```

```

        public void displayToast(String message) {
            Toast.makeText(getApplicationContext(), message,
                Toast.LENGTH_SHORT).show();
        }
    }
}

```

- SecondFragment.java

```

package com.example.droidcafe;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.navigation.fragment.NavHostFragment;

import com.example.droidcafe.databinding.FragmentSecondBinding;

public class SecondFragment extends Fragment {

    private FragmentSecondBinding binding;

    @Override
    public View onCreateView(
        LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState
    ) {

        binding = FragmentSecondBinding.inflate(inflater, container, false);
        return binding.getRoot();

    }

    public void onViewCreated(@NonNull View view, Bundle savedInstanceState)
    {
        super.onViewCreated(view, savedInstanceState);

        binding.buttonSecond.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                NavHostFragment.findNavController(SecondFragment.this)
                    .navigate(R.id.action_SecondFragment_to_FirstFragment);
            }
        });
    }

    @Override
    public void onDestroyView() {
        super.onDestroyView();
        binding = null;
    }

}

```

```
}
```

- Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.coordinatorlayout.widget.CoordinatorLayout
    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=".MainActivity">

    <com.google.android.material.appbar.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/Theme.DroidCafe.AppBarOverlay">

        <androidx.appcompat.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/Theme.DroidCafe.PopupOverlay" />

    </com.google.android.material.appbar.AppBarLayout>

    <include layout="@layout/content_main" />

    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|end"
        android:layout_marginEnd="@dimen/fab_margin"
        android:layout_marginBottom="16dp"
        android:onClick="gmaps"
        app:srcCompat="@android:drawable/ic_dialog_email" />

</androidx.coordinatorlayout.widget.CoordinatorLayout>
```

- Activity_order.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"
    tools:context=".OrderActivity">

    <TextView
        android:id="@+id/order_intro_text"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```

        android:layout_marginTop="@dimen/text_margin_top"
        android:layout_marginBottom="@dimen/text_margin_bottom"
        android:textSize="@dimen/intro_text_size"

        android:text="@string/choose_delivery_method"
    />
    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_below="@id/order_intro_text">
        <RadioButton
            android:id="@+id/sameday"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/same_day_messenger_service"
            android:onClick="onRadioButtonClicked"
        />
        <RadioButton
            android:id="@+id/nextday"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/next_day_ground_delivery"
            android:onClick="onRadioButtonClicked"
        />
        <RadioButton
            android:id="@+id/pickup"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="@string/pick_up"
            android:onClick="onRadioButtonClicked"
        />
    </RadioGroup>
</RelativeLayout>

```

- Content_main.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"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_behavior="@string/appbar_scrolling_view_behavior">

    <TextView
        android:id="@+id/textintro"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:padding="@dimen/padding_reguler"
        android:text="@string/intro_text"
        android:textSize="@dimen/text_heading" />
    <TextView
        android:id="@+id/choose_desert"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/textintro"

```

```

        android:padding="@dimen/padding_reguler"
        android:text="@string/choose_a_dessert" />
<ImageView
    android:id="@+id/donut"
    android:layout_width="190dp"
    android:layout_height="176dp"
    android:layout_below="@id/choose_desert"
    android:contentDescription="@string/donuts"
    android:onClick="showDonutOrder"
    android:padding="@dimen/padding_reguler"
    android:src="@drawable/donut_circle" />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/choose_desert"
    android:layout_toRightOf="@id/donut"
    android:padding="@dimen/padding_wide"
    android:text="@string/donuts" />
<ImageView
    android:id="@+id/ice_cream"
    android:layout_width="190dp"
    android:layout_height="176dp"
    android:layout_below="@id/donut"
    android:contentDescription="@string/ice_cream_sandwiches"
    android:onClick="showIceCreamOrder"
    android:padding="@dimen/padding_reguler"
    android:src="@drawable/icecream_circle" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/donut"
    android:layout_toRightOf="@id/ice_cream"
    android:padding="@dimen/padding_wide"
    android:text="@string/ice_cream_sandwiches" />
<ImageView
    android:id="@+id/froyo"
    android:layout_width="190dp"
    android:layout_height="176dp"
    android:layout_below="@id/ice_cream"
    android:contentDescription="@string/froyo"
    android:onClick="showFroyoOrder"
    android:padding="@dimen/padding_reguler"
    android:src="@drawable/froyo_circle" />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/ice_cream"
    android:layout_toRightOf="@id/froyo"
    android:padding="@dimen/padding_wide"
    android:text="@string/froyo" />
</RelativeLayout>

```

- Fragment_first.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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=".FirstFragment">

    <TextView
        android:id="@+id/textview_first"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/hello_first_fragment"
        app:layout_constraintBottom_toTopOf="@id/button_first"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button_first"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/next"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@id/textview_first" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

- Fragment_second.xml

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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=".SecondFragment">

    <TextView
        android:id="@+id/textview_second"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toTopOf="@id/button_second"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button_second"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/previous"
        app:layout_constraintBottom_toBottomOf="parent"

```

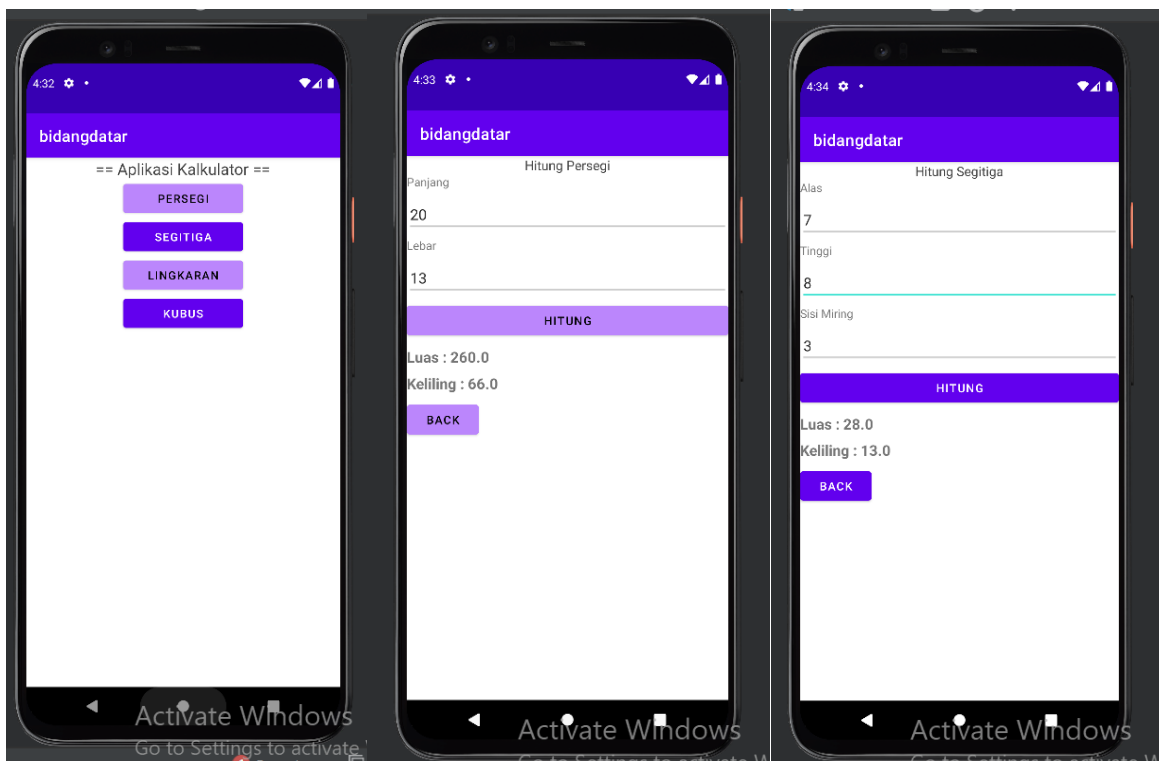
```

app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@id/textview_second" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

3. Aplikasi menghitung luas dan keliling :

- Persegi
- Segitiga
- Lingkaran
- Kubus



- Kubus.java

```

package com.example.bidangdatar;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class Kubus extends AppCompatActivity {

    private EditText edtSisi;
    private Button btnHitung;
    private TextView txtLuas, txtKeliling;
}

```



```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_kubus);
    edtSisi = (EditText) findViewById(R.id.edt_sisi);
    btnHitung = (Button) findViewById(R.id.btn_hitung);
    txtLuas = (TextView) findViewById(R.id.txt_luas);
    txtKeliling = (TextView)
        findViewById(R.id.txt_keliling);
    btnHitung.setOnClickListener(new
        View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String sisi =

edtSisi.getText().toString().trim();

double s =

Double.parseDouble(sisi);

double luas = 6*(s * s);
double keliling = s*s*s;
txtLuas.setText("Luas :

" + luas);

txtKeliling.setText("Keliling : " + keliling);

        }
    });
}

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

```

- Lingkaran.java

```

package com.example.bidangdatar;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class Lingkaran extends AppCompatActivity {
    private EditText edtJari;
    private Button btnHitung;
    private TextView txtLuas, txtKeliling;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        edtJari = (EditText) findViewById(R.id.edt_jari);
        btnHitung = (Button) findViewById(R.id.btn_hitung);
        txtLuas = (TextView) findViewById(R.id.txt_luas);
        txtKeliling = (TextView)

```

```

        findViewById(R.id.txt_keliling);
        btnHitung.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String jari = edtJari.getText().toString().trim();
                double r = Double.parseDouble(jari);
                double luas = 3.14*(r * r);
                double keliling = 2*(3.14*r);
                txtLuas.setText("Luas : " + luas);
                txtKeliling.setText("Keliling : " + keliling);
            }
        });
    }

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

```

- MainActivity.java

```

package com.example.bidangdatar;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class MainActivity extends AppCompatActivity {
    @Override

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

    public void persegi(View view) {
        Intent intent = new
            Intent(MainActivity.this, Persegi.class);
        startActivity(intent);
    }

    public void segitiga(View view) {
        Intent intent = new
            Intent(MainActivity.this, Segitiga.class);
        startActivity(intent);
    }

    public void lingkaran(View view) {
        Intent intent = new
            Intent(MainActivity.this, Lingkaran.class);
        startActivity(intent);
    }

    public void kubus(View view) {
        Intent intent = new
            Intent(MainActivity.this, Kubus.class);
        startActivity(intent);
    }
}

```

- Persegi.java

```
package com.example.bidangdatar;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class Persegi extends AppCompatActivity {
    private EditText edtPanjang, edtLebar;
    private Button btnHitung;
    private TextView txtLuas, txtKeliling;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_persegi);
        edtPanjang = (EditText) findViewById(R.id.edt_panjang);
        edtLebar = (EditText) findViewById(R.id.edt_lebar);
        btnHitung = (Button) findViewById(R.id.btn_hitung);
        txtLuas = (TextView) findViewById(R.id.txt_luas);
        txtKeliling = (TextView) findViewById(R.id.txt_keliling);
        btnHitung.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String panjang = edtPanjang.getText().toString().trim();
                String lebar = edtLebar.getText().toString().trim();
                double p = Double.parseDouble(panjang);
                double l = Double.parseDouble(lebar);
                double luas = p * l;
                double keliling = 2*(p+l);
                txtLuas.setText("Luas : " + luas);
                txtKeliling.setText("Keliling : " + keliling);
            }
        });
    }
    public void back(View view) {
        Intent intent = new
            Intent(Persegi.this, MainActivity.class);
        startActivity(intent);
    }
}
```

- Segitiga.java

```
package com.example.bidangdatar;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
```

```

import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class Segitiga extends AppCompatActivity {
    private EditText edtAlas, edtTinggi, edtSisi;
    private Button btnHitung;
    private TextView txtLuas, txtKeliling;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_segitiga);
        edtAlas = (EditText) findViewById(R.id.edt_alas);
        edtTinggi = (EditText) findViewById(R.id.edt_tinggi);
        edtSisi = (EditText) findViewById(R.id.edt_sisi);
        btnHitung = (Button) findViewById(R.id.btn_hitung);
        txtLuas = (TextView) findViewById(R.id.txt_luas);
        txtKeliling = (TextView)

                findViewById(R.id.txt_keliling);
        btnHitung.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String alas = edtAlas.getText().toString().trim();
                String tinggi = edtTinggi.getText().toString().trim();
                String sisi = edtSisi.getText().toString().trim();
                double a = Double.parseDouble(alas);
                double t = Double.parseDouble(tinggi);
                double b = Double.parseDouble(sisi);
                double luas = 0.5*(a * t);
                double keliling = a+(2*b);
                txtLuas.setText("Luas : " + luas);
                txtKeliling.setText("Keliling : " + keliling);}

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

```

- Activity_kubus.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"
    tools:context=".Kubus">
    <TextView
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

```

```

        android:text="Hitung Kubus"
        android:layout_gravity="center"
        android:textSize="16dp"
        android:textColor="@color/cardview_dark_background"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Sisi"
    android:layout_marginBottom="8dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/edt_sisi"
    android:hint="0"
    android:inputType="numberDecimal"
    android:layout_marginBottom="5dp"/>
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn_hitung"
    android:text="Hitung"
    android:layout_marginBottom="8dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_luas"
    android:text="Hasil"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_keliling"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<Button
    android:id="@+id/back"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Back"
    android:onClick="back"/>
</LinearLayout>

```

- Activity_lingkaran.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"

```

```

tools:context=".Lingkaran">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hitung Lingkaran"
    android:layout_gravity="center"
    android:textSize="16dp"
    android:textColor="@color/cardview_dark_background"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Jari-Jari"
    android:layout_marginBottom="8dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/edt_jari"

    android:hint="0"
    android:inputType="numberDecimal"
    android:layout_marginBottom="5dp"/>
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn_hitung"
    android:text="Hitung"
    android:backgroundTint="@color/purple_200"
    android:textColor="@color/black"
    android:layout_marginBottom="8dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_luas"
    android:text="Hasil"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_keliling"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<Button
    android:id="@+id/back"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:backgroundTint="@color/purple_200"
    android:textColor="@color/black"
    android:text="Back"
    android:onClick="back"/>
</LinearLayout>

```

- Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=="== Aplikasi Kalkulator =="
        android:layout_gravity="center"
        android:textSize="20dp"
        android:textColor="@color/cardview_dark_background"
    />

    <Button
        android:id="@+id/persegi"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:backgroundTint="@color/purple_200"
        android:textColor="@color/black"
        android:layout_gravity="center"
        android:onClick="persegi"
        android:text="Persegi" />

    <Button
        android:id="@+id/segitiga"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_gravity="center"
        android:onClick="segitiga"
        android:text="Segitiga" />

    <Button
        android:id="@+id/lingkaran"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:textColor="@color/black"
        android:backgroundTint="@color/purple_200"
        android:layout_gravity="center"
        android:text="Lingkaran"
        android:onClick="lingkaran"/>

    <Button
        android:id="@+id/kubus"
        android:layout_width="150dp"
        android:layout_height="wrap_content"
        android:layout_alignParentEnd="true"
```

```

        android:layout_alignParentBottom="true"
        android:layout_gravity="center"
        android:onClick="kubus"
        android:text="Kubus" />
</LinearLayout>

```

- Activity_persegi.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"
    tools:context=".Persegi">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hitung Persegi"
        android:layout_gravity="center"
        android:textSize="16dp"
        android:textColor="@color/cardview_dark_background"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Panjang"
        android:layout_marginBottom="8dp"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edt_panjang"
        android:hint="0"
        android:inputType="numberDecimal"
        android:layout_marginBottom="5dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Lebar"
        android:layout_marginBottom="8dp"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edt_lebar"
        android:hint="0"
        android:inputType="numberDecimal"
        android:layout_marginBottom="5dp"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btn_hitung"
        android:text="Hitung"
        android:backgroundTint="@color/purple_200"
        android:textColor="@color/black"

```



```

        android:layout_marginBottom="8dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_luas"

    android:text="Hasil"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_keliling"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<Button
    android:id="@+id/back"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:backgroundTint="@color/purple_200"
    android:textColor="@color/black"
    android:text="Back"
    android:onClick="back"/>
</LinearLayout>

```

- Activity_segitiga.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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:orientation="vertical"
    tools:context=".Segitiga">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hitung Segitiga"
        android:layout_gravity="center"
        android:textSize="16dp"
        android:textColor="@color/cardview_dark_background"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Alas"
        android:layout_marginBottom="8dp"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/edt_alas"
        android:hint="0"

```

```

        android:inputType="numberDecimal"
        android:layout_marginBottom="5dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Tinggi"
    android:layout_marginBottom="8dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/edt_tinggi"
    android:hint="0"
    android:inputType="numberDecimal"
    android:layout_marginBottom="5dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Sisi Miring"
    android:layout_marginBottom="8dp"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/edt_sisi"
    android:hint="0"
    android:inputType="numberDecimal"
    android:layout_marginBottom="5dp"/>
<Button
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/btn_hitung"
    android:text="Hitung"
    android:layout_marginBottom="8dp"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_luas"
    android:text="Hasil"

    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/txt_keliling"
    android:layout_marginBottom="8dp"
    android:textSize="18sp"
    android:textStyle="bold"/>
<Button
    android:id="@+id/back"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Back"
    android:onClick="back"/>
</LinearLayout>

```

- Colors.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>
</resources>
```

- Strings.xml

```
<resources>
    <string name="app_name">bidangdatar</string>
</resources>
```