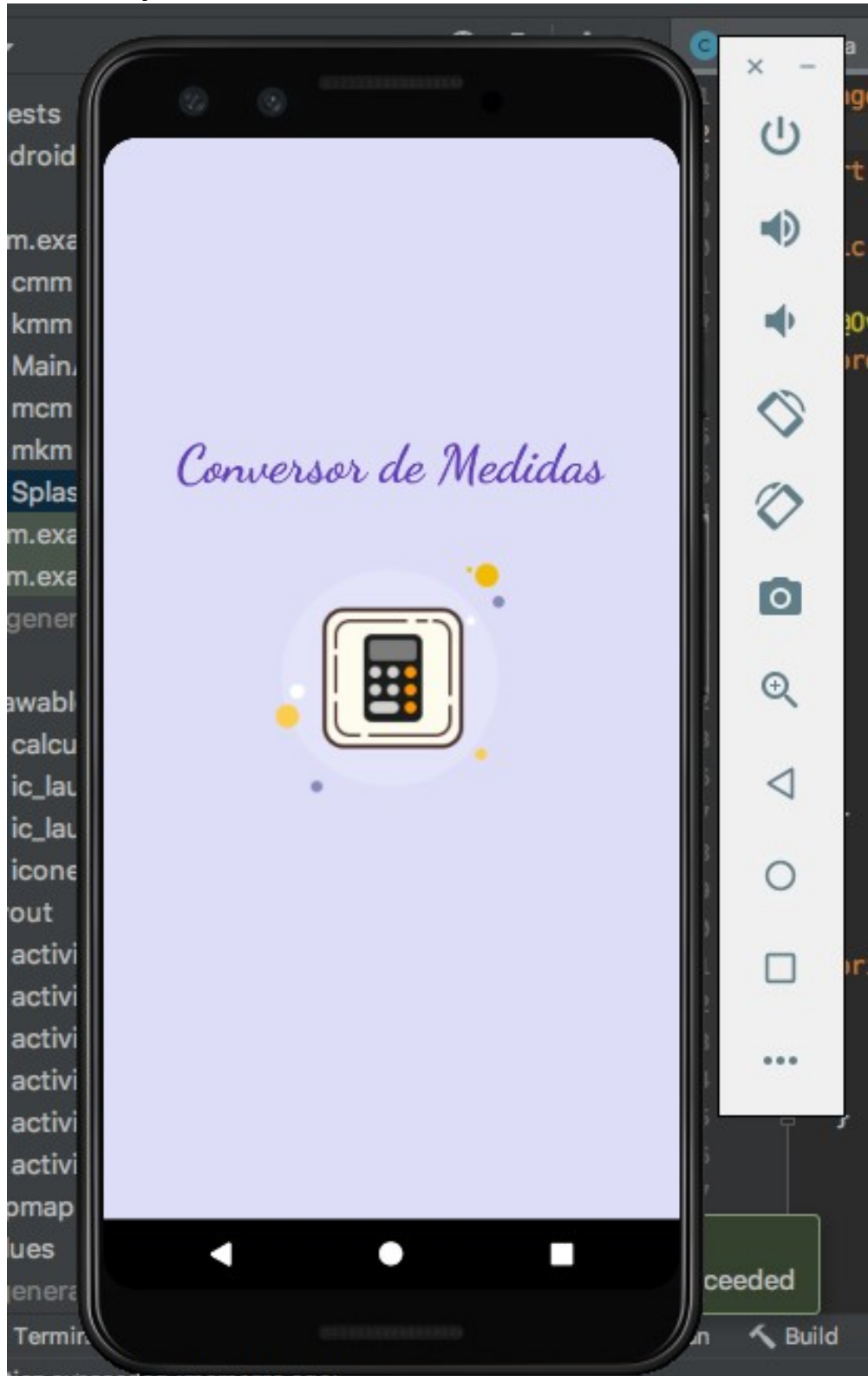**Programa**: Calculadora de conversões, com tela splash, actionbar escondida e "menu"
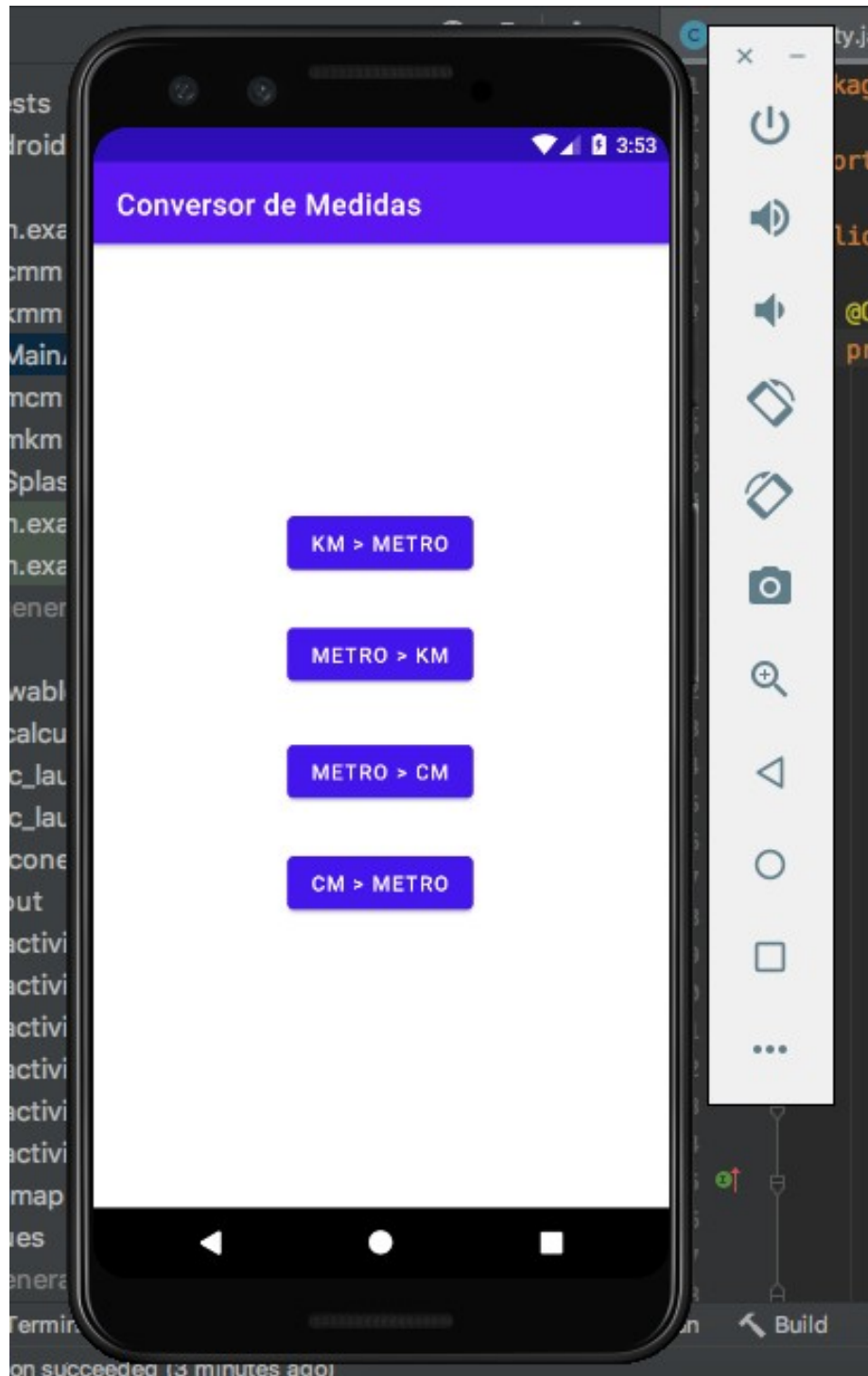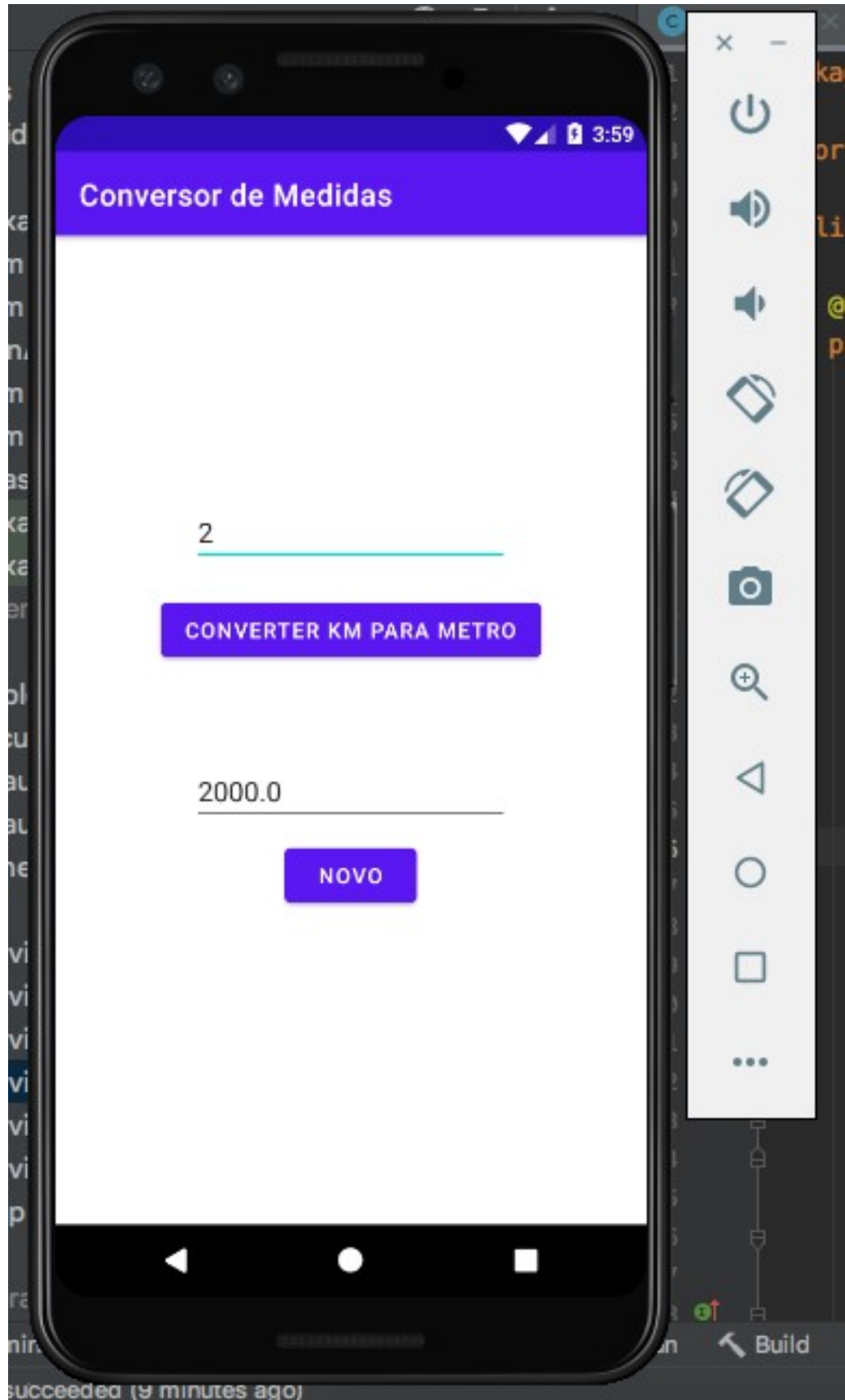**Autor**: Chrystie
Data: 15/05/2021

Tela do Splash

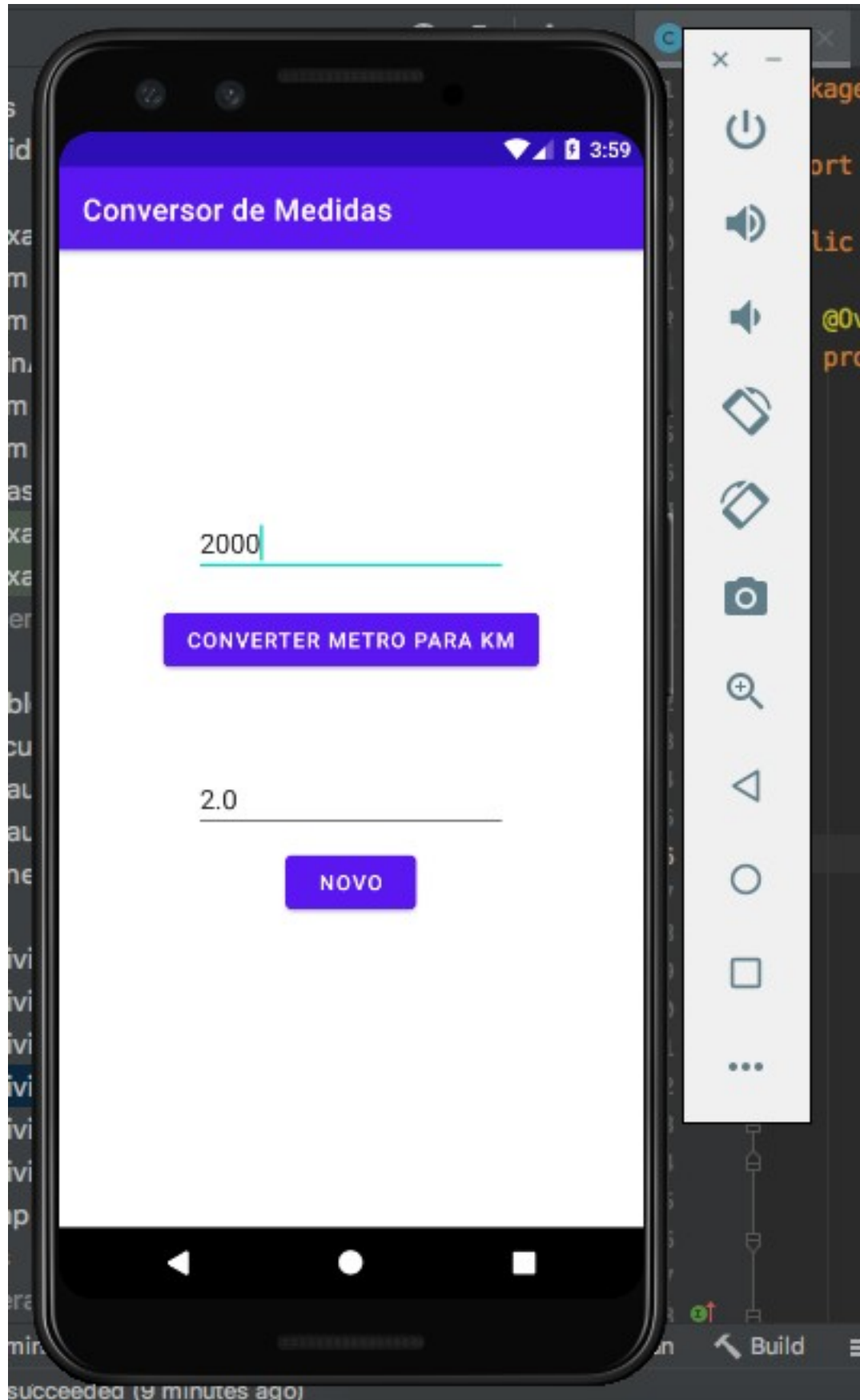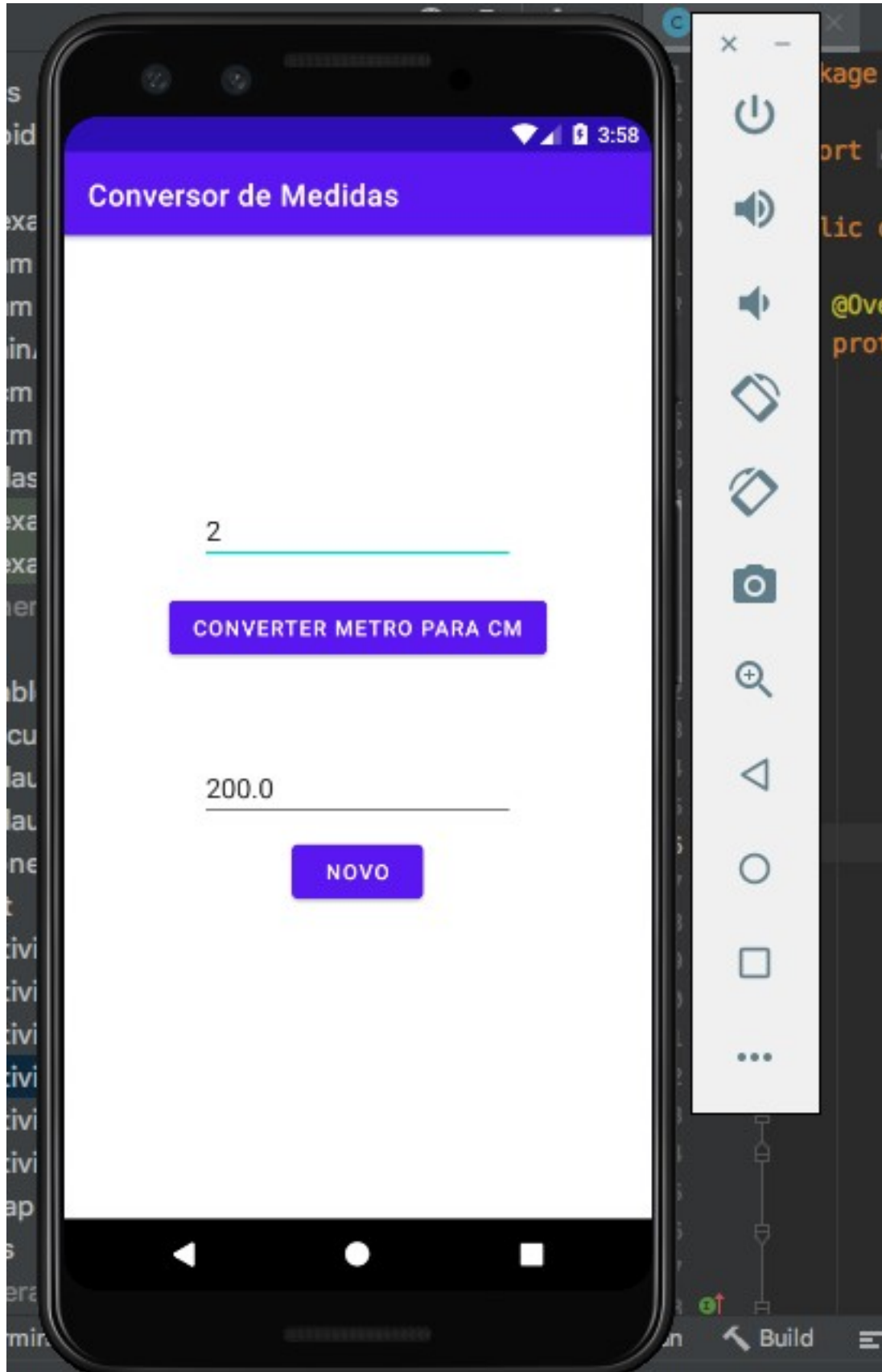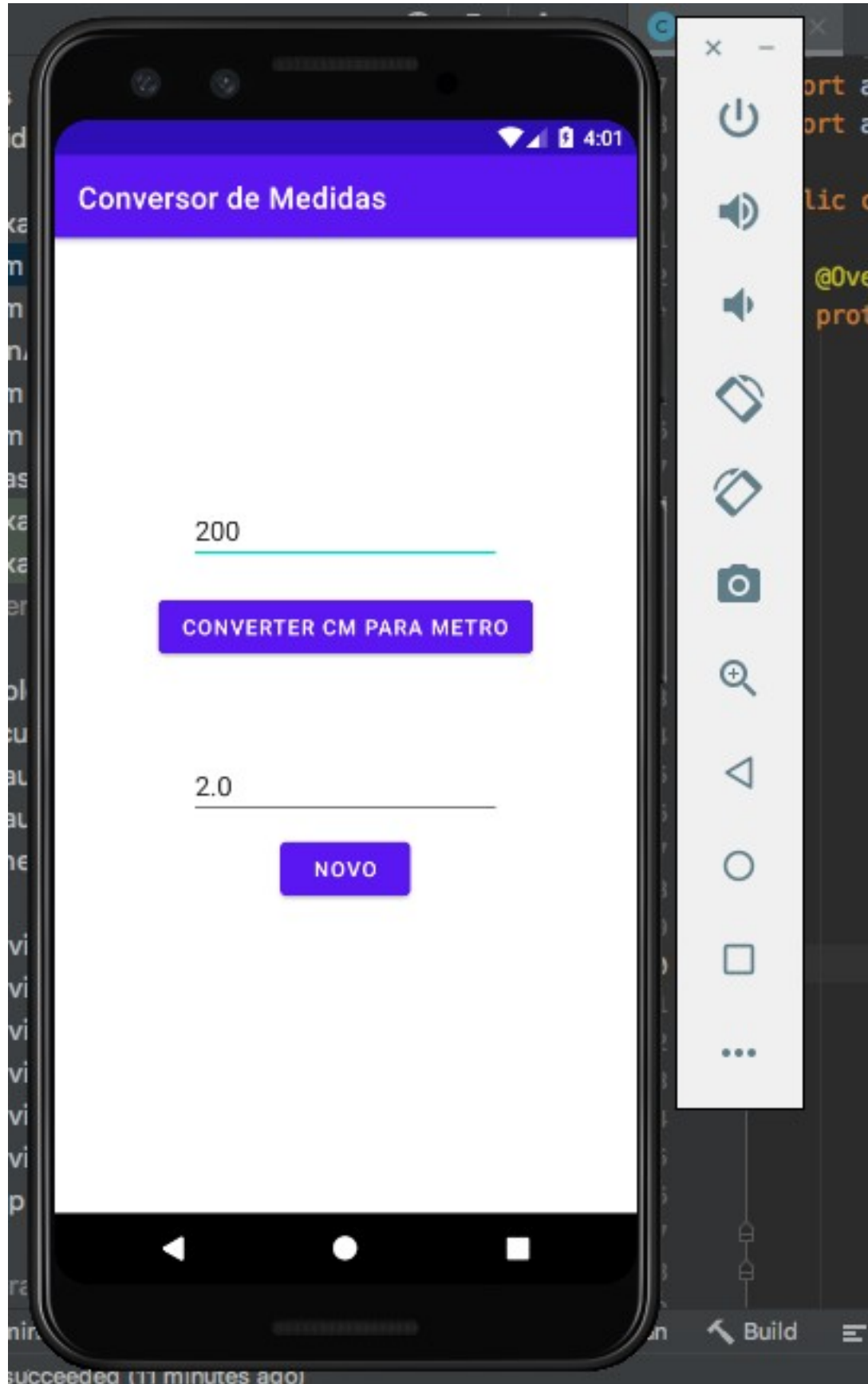## Tela MainActivity

Tela kmm

Tela mkm

Tela mcm

Tela cmm

Xml Splash

```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"
    android:background="#DEDDF7"
    android:backgroundTint="#FFDEDDF7"
    tools:context=".Splash">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:srcCompat="@drawable/calculadora" />

    <TextView
        android:id="@+id/txtTitulo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="200dp"
        android:fontFamily="cursive"
        android:freezesText="true"
        android:text="Conversor de Medidas"
        android:textColor="#673AB7"
        android:textSize="36sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.495"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Classe Java do Splash

```java
package com.example.conversormedidas;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.os.Handler;
import android.view.WindowManager;
import android.content.Intent;

public class Splash extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_splash);
        // oculta nome app
```

```java
        getSupportActionBar().hide();
        // oculta menu, horário etc.

getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,Window
Manager.LayoutParams.FLAG_FULLSCREEN);

        new Handler().postDelayed(new Runnable() {
            @Override
            public void run() {
                mostrarMainActivity();
            }
        },2000);
    }



    private void mostrarMainActivity() {
        Intent intent = new Intent(Splash.this, MainActivity.class);
        startActivity(intent);
        finish();
    }
}
```

Xml MainActivity

```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=".MainActivity">

    <Button
        android:id="@+id/btnMKm"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="28dp"
        android:backgroundTint="#4E00E9"
        android:text="metro > km"
        android:textColor="#FFFFFF"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/btnKmM" />

    <Button
        android:id="@+id/btnMCm"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="32dp"
        android:backgroundTint="#4E00E9"
        android:text="metro > cm"
        android:textColor="#FFFFFF"
        app:layout_constraintStart_toStartOf="@+id/btnMKm"
        app:layout_constraintTop_toBottomOf="@+id/btnMKm" />

    <Button
        android:id="@+id/btnCmM"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="28dp"
        android:backgroundTint="#4E00E9"
        android:text="cm > metro"
        android:textColor="#FFFFFF"
        app:layout_constraintStart_toStartOf="@+id/btnMCm"
        app:layout_constraintTop_toBottomOf="@+id/btnMCm" />

    <Button
        android:id="@+id/btnKmM"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="180dp"
        android:backgroundTint="#4E00E9"
        android:text="km > metro"
        android:textColor="#FFFFFF"
        app:layout_constraintStart_toStartOf="@+id/btnMKm"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Classe Java MainActivity

```java
package com.example.conversormedidas;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

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

        Button btnKmM_Prog = (Button)findViewById(R.id.btnKmM);
        Button btnMKm_Prog = (Button)findViewById(R.id.btnMKm);
        Button btnMCm_Prog = (Button)findViewById(R.id.btnMCm);
        Button btnCmM_Prog = (Button)findViewById(R.id.btnCmM);


        // Km para Metro
        btnKmM_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,
kmm.class);
                startActivity(intent);
            }
        });

        // Metro para Km
        btnMKm_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,
mkm.class);
                startActivity(intent);
            }
        });

        // Metro para Centímetro
        btnMCm_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,
mcm.class);
                startActivity(intent);
            }
        });

        // Centímetro para Metro
        btnCmM_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,
cmm.class);
```

```
                startActivity(intent);
            }
        });


    }
}
```

Xml kmm

```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=".kmm">

    <EditText
        android:id="@+id/edtM"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="175dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/edtKm"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="265dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/btnConverter"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="18dp"
        android:text="Converter km para metro"
        app:layout_constraintEnd_toEndOf="@+id/edtM"
        app:layout_constraintStart_toStartOf="@+id/edtM"
        app:layout_constraintTop_toBottomOf="@+id/edtM" />

    <Button
        android:id="@+id/btnNovo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="9dp"
        android:text="Novo"
        app:layout_constraintEnd_toEndOf="@+id/edtKm"
        app:layout_constraintStart_toStartOf="@+id/edtKm"
        app:layout_constraintTop_toBottomOf="@+id/edtKm" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Classe Java kmm

```java
package com.example.conversormedidas;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class kmm extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_kmm);
        final EditText edtKm_Prog = (EditText)findViewById(R.id.edtM);
        final EditText edtM_Prog = (EditText)findViewById(R.id.edtKm);
        Button btnConverter_Prog =
(Button)findViewById(R.id.btnConverter);
        Button btnNovo_Prog = (Button)findViewById(R.id.btnNovo);

        btnConverter_Prog.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double km =
Double.parseDouble(edtKm_Prog.getText().toString());
                double m = km*1000;
                edtM_Prog.setText(String.valueOf(m));
            }
        });

        btnNovo_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtM_Prog.setText("");
                edtKm_Prog.setText("");
                edtKm_Prog.requestFocus();
            }
        });


    }
```

Xml mcm

```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=".mcm">

    <Button
        android:id="@+id/btnConverter"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="18dp"
        android:text="Converter metro para cm"
        app:layout_constraintEnd_toEndOf="@+id/edtM"
        app:layout_constraintStart_toStartOf="@+id/edtM"
        app:layout_constraintTop_toBottomOf="@+id/edtM" />

    <EditText
        android:id="@+id/edtCm"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="265dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/btnNovo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="9dp"
        android:text="Novo"
        app:layout_constraintEnd_toEndOf="@+id/edtCm"
        app:layout_constraintStart_toStartOf="@+id/edtCm"
        app:layout_constraintTop_toBottomOf="@+id/edtCm" />

    <EditText
        android:id="@+id/edtM"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="175dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Classe java mcm

```java
package com.example.conversormedidas;

import androidx.appcompat.app.AppCompatActivity;
```

```java
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class mcm extends AppCompatActivity {

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

        // texto
        final EditText edtM_Prog = (EditText)findViewById(R.id.edtM);
        final EditText edtCm_Prog =
(EditText)findViewById(R.id.edtCm);
        // botões
        Button btnConverter_Prog =
(Button)findViewById(R.id.btnConverter);
        Button btnNovo_Prog = (Button)findViewById(R.id.btnNovo);
        edtM_Prog.requestFocus();


        btnConverter_Prog.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double m =
Double.parseDouble(edtM_Prog.getText().toString());
                double cm = m*100;
                edtCm_Prog.setText(String.valueOf(cm));

            }
        });

        btnNovo_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtM_Prog.setText("");
                edtCm_Prog.setText("");
                edtM_Prog.requestFocus();
            }
        });

    }
```

Xml cmm

```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=".cmm">

    <Button
        android:id="@+id/btnConverter"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="18dp"
        android:text="Converter cm para metro"
        app:layout_constraintEnd_toEndOf="@+id/edtCm"
        app:layout_constraintStart_toStartOf="@+id/edtCm"
        app:layout_constraintTop_toBottomOf="@+id/edtCm" />

    <EditText
        android:id="@+id/edtM"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="265dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/btnNovo"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="9dp"
        android:text="Novo"
        app:layout_constraintEnd_toEndOf="@+id/edtM"
        app:layout_constraintStart_toStartOf="@+id/edtM"
        app:layout_constraintTop_toBottomOf="@+id/edtM" />

    <EditText
        android:id="@+id/edtCm"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="175dp"
        android:ems="10"
        android:inputType="number"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Classe java cmm

```java
package com.example.conversormedidas;

import androidx.appcompat.app.AppCompatActivity;
```

```java
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class cmm extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_cmm);
        final EditText edtM_Prog = (EditText)findViewById(R.id.edtM);
        final EditText edtCm_Prog =
(EditText)findViewById(R.id.edtCm);
        Button btnConverter_Prog =
(Button)findViewById(R.id.btnConverter);
        Button btnNovo_Prog = (Button)findViewById(R.id.btnNovo);
        edtCm_Prog.requestFocus();

        btnConverter_Prog.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double cm =
Double.parseDouble(edtCm_Prog.getText().toString());
                double m = cm/100;
                edtM_Prog.setText(String.valueOf(m));
            }
        });

        btnNovo_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtM_Prog.setText("");
                edtCm_Prog.setText("");
                edtCm_Prog.requestFocus();
            }
        });


    }
```

Xml AndroidManifest

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.ConversorMedidas">
        <activity android:name=".cmm"></activity>
        <activity android:name=".mcm" />
        <activity android:name=".mkm" />
        <activity android:name=".kmm" />
        <activity android:name=".MainActivity" />
        <activity android:name=".Splash">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

</manifest>
```

App → res → values → strings.xml

```xml
<resources>
    <string name="app_name">Conversor de Medidas</string>
</resources>
```