Código Splash

```java
public class Splash extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_splash);
        getSupportActionBar().hide();
        getWindow().setFlags(WindowManager.LayoutParams.
FLAG_FULLSCREEN, WindowManager.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();
    }
}
```
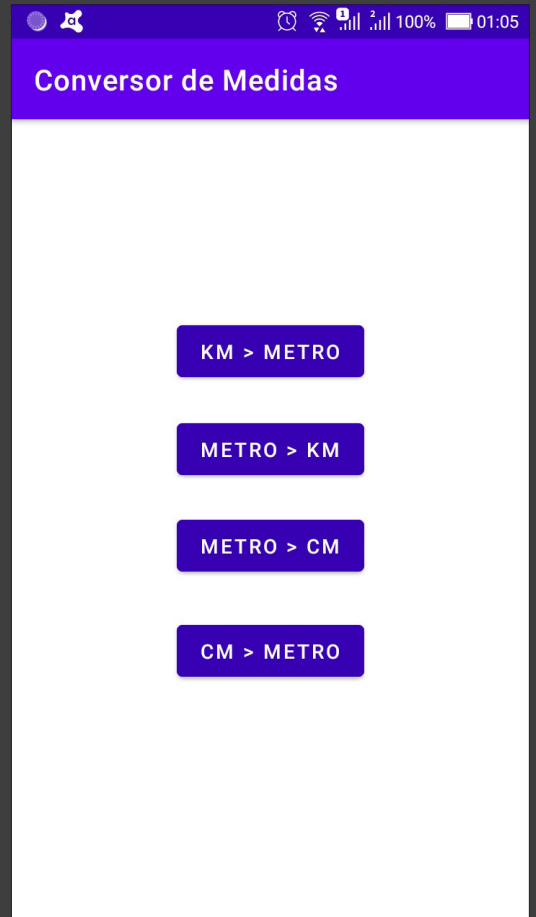
Tela Splash

Conversor de Medidas

Código Tela Inicial

```java
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 btnCmM_Prog = (Button) findViewById(R.id.btnCmM);
        Button btnMCm_Prog = (Button) findViewById(R.id.btnMCm);
        btnKmM_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,kmm.class);
                startActivity(intent);
            }
        });
        btnMKm_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,MKm.class);
                startActivity(intent);
            }
        });
        btnCmM_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,CmM.class);
                startActivity(intent);
            }
        });
        btnMCm_Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,MCm.class);
                startActivity(intent);
            }
        });
    }
}
```

Tela Inicial

Código Tela km > m

```java
public class kmm extends AppCompatActivity {

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

        Button btnConverterProg = (Button)findViewById
(R.id.btnConverter);
        Button btnNovoProg = (Button)findViewById(R.id.btnNovo);
        Button btnVoltar4Prog = (Button)findViewById(R.id.btnVoltar4);
        final EditText edtKmProg = (EditText)findViewById(R.id.edtKm);
        final EditText edtMProg = (EditText)findViewById(R.id.edtM);

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

        btnNovoProg.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtKmProg.setText("");
                edtMProg.setText("");
                edtKmProg.requestFocus();
            }
        });

        btnVoltar4Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(kmm.this, MainActivity.class);
                startActivity(intent);
            }
        });
    }
}
```
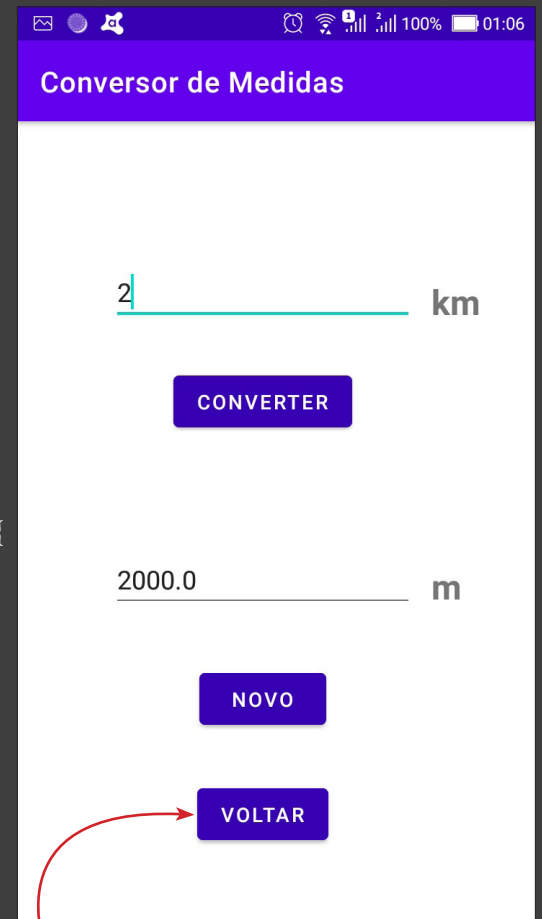
Tela km > m

Conversor de Medidas

2 _____ **km**

CONVERTER

2000.0 _____ **m**

NOVO

VOLTAR

Esse botão volta para a tela inicial.

Código Tela m > km

```java
public class MKm extends AppCompatActivity {

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

        Button btnConverter2Prog = (Button)findViewById
(R.id.btnConverter2);
        Button btnNovo2Prog = (Button)findViewById(R.id.btnNovo2);
        Button btnVoltar3Prog = (Button)findViewById(R.id.btnVoltar3);

        final EditText edtM2Prog = (EditText)findViewById(R.id.edtM2);
        final EditText edtKm2Prog = (EditText)findViewById(R.id.edtKm2);

        btnConverter2Prog.setOnClickListener
(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double m = Double.parseDouble(edtM2Prog.getText()
.toString());
                double km = m/1000;
                edtKm2Prog.setText(String.valueOf(km));
            }
        });

        btnNovo2Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtM2Prog.setText("");
                edtKm2Prog.setText("");
                edtM2Prog.requestFocus();
            }
        });

        btnVoltar3Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MKm.this, MainActivity.class);
                startActivity(intent);
            }
        });
    }
}
```

Tela m > km

Conversor de Medidas

600
m

CONVERTER

0.6
km

NOVO

VOLTAR

Código Tela m > cm

```java
public class MCm extends AppCompatActivity {

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

        Button btnConverter3 = (Button)findViewById(R.id.btnConverter3);
        Button btnNovo3Prog = (Button)findViewById(R.id.btnNovo3);
        Button btnVoltar2Prog = (Button)findViewById(R.id.btnVoltar2);

        final EditText edtM3Prog = (EditText)findViewById(R.id.edtM3);
        final EditText edtCmProg = (EditText)findViewById(R.id.edtCm);

        btnConverter3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double m = Double.parseDouble(edtM3Prog.getText()
.toString());
                double cm = m*100;
                edtCmProg.setText(String.valueOf(cm));
            }
        });

        btnNovo3Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtM3Prog.setText("");
                edtCmProg.setText("");
                edtM3Prog.requestFocus();
            }
        });

        btnVoltar2Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MCm.this, MainActivity.class);
                startActivity(intent);
            }
        });
    }
}
```
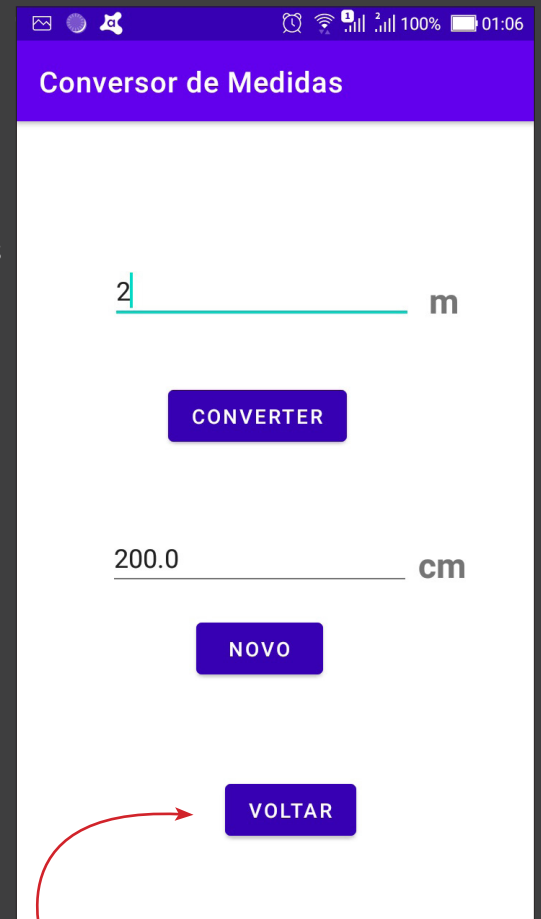
Tela m > cm

Conversor de Medidas

2 _____ m

CONVERTER

200.0 _____ cm

NOVO

VOLTAR

Olá, professor!
1) Essa tela é a de teste no celular. Nela, não consegui manter o botão de voltar alinhado, mas na IDE estava alinhado com o botão de novo. Refiz as constraints, mas resolveu. Gostaria de entender o que houve

2) Gostaria de aprender uma maneira automática de manter o alinhamento e a localização dos elementos ao repetir o layout em várias telas diferentes. Tentei copiar de uma tela para a outra, mas não dava certo, pois muitas vezes os elementos colavam bagunçados.

Obs: na última avaliação você elogiou a organização do arquivo. Muito obrigada!.... rs

Código Tela cm > m

```java
public class CmM extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_cm_m);
        Button btnConverter4Prog = (Button)findViewById
(R.id.btnConverter4);
        Button btnNovo5Prog = (Button)findViewById(R.id.btnNovo5);
        Button btnVoltarProg = (Button)findViewById(R.id.btnVoltar);

        final EditText edtCm2Prog = (EditText)findViewById(R.id.edtCm2);
        final EditText edtM4Prog = (EditText)findViewById(R.id.edtM4);

        btnConverter4Prog.setOnClickListener
(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double cm = Double.parseDouble(edtCm2Prog.getText()
.toString());
                double m = cm/100;
                edtM4Prog.setText(String.valueOf(m));
            }
        });

        btnNovo5Prog.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                edtCm2Prog.setText("");
                edtM4Prog.setText("");
                edtCm2Prog.requestFocus();
            }
        });

        btnVoltarProg.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(CmM.this, MainActivity.class);
                startActivity(intent);
            }
        });
    }
}
```

Tela cm > m