

CALCULADORA COMBUSTIVEL:

```
package com.example.myapplication;

import android.os.Bundle;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class CalculadoraCombustivelActivity extends AppCompatActivity {
    EditText edtGasolina, edtAlcool;
    RadioGroup rgCombustivel;
    TextView txtResultado;

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

        edtGasolina = findViewById(R.id.edtGasolina);
        edtAlcool = findViewById(R.id.edtAlcool);
        rgCombustivel = findViewById(R.id.rgCombustivel);
        txtResultado = findViewById(R.id.txtResultado);

        rgCombustivel.setOnCheckedChangeListener(new
        RadioGroup.OnCheckedChangeListener() {
            @Override
            public void onCheckedChanged(RadioGroup group, int checkedId) {
                double gasolina = Double.parseDouble(edtGasolina.getText().toString());
                double alcool = Double.parseDouble(edtAlcool.getText().toString());

                double relacao = alcool / gasolina;
                String recomendacao;

                if (checkedId == R.id.rbAlcool) {
                    recomendacao = relacao < 0.7 ? "Álcool é mais vantajoso" : "Gasolina é mais
vantajosa";
                    double diferenca = Math.abs(0.7 - relacao) * 100;
                    txtResultado.setText(recomendacao + "\nDiferença de " + String.format("%.2f",
diferenca) + "%.");
                } else if (checkedId == R.id.rbGasolina) {
                    recomendacao = relacao >= 0.7 ? "Gasolina é mais vantajosa" : "Álcool é mais
vantajoso";
                    double diferenca = Math.abs(0.7 - relacao) * 100;
                    txtResultado.setText(recomendacao + "\nDiferença de " + String.format("%.2f",
diferenca) + "%.");
                }
            }
        });
    }
}
```

```

        }
    }
    });
}
}

```

APRESENTACAO:

```

package com.example.myapp;

import android.os.Bundle;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;

public class ApresentacaoActivity extends AppCompatActivity {
    TextView txtApresentacao;

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

        txtApresentacao = findViewById(R.id.txtApresentacao);

        // Exemplo de apresentação de dados do aluno
        String dadosAluno = "Nome: João da Silva\nCurso: Engenharia\nMatrícula:
123456\nSemestre: 5º\nDisciplina: Programação Android";
        txtApresentacao.setText(dadosAluno);
    }
}

```

CALCULADORA IMC:

```

package com.example.myapp;

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

public class CalculadoraIMCActivity extends AppCompatActivity {
    EditText edtPeso, edtAltura;
    Button btnCalcular, btnLimpar;
    TextView txtResultado;
}

```

```

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

    edtPeso = findViewById(R.id.edtPeso);
    edtAltura = findViewById(R.id.edtAltura);
    btnCalcular = findViewById(R.id.btnCalcular);
    btnLimpar = findViewById(R.id.btnLimpar);
    txtResultado = findViewById(R.id.txtResultado);

    btnCalcular.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            double peso = Double.parseDouble(edtPeso.getText().toString());
            double altura = Double.parseDouble(edtAltura.getText().toString());
            double imc = peso / (altura * altura);
            String classificacao = getClassificacaoIMC(imc);
            txtResultado.setText("IMC: " + String.format("%.2f", imc) + "\nClassificação: " +
classificacao);
        }
    });

    btnLimpar.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            edtPeso.setText("");
            edtAltura.setText("");
            txtResultado.setText("");
        }
    });
}

private String getClassificacaoIMC(double imc) {
    if (imc < 18.5) return "Abaixo do peso";
    else if (imc >= 18.5 && imc < 24.9) return "Peso normal";
    else if (imc >= 25 && imc < 29.9) return "Sobrepeso";
    else return "Obesidade";
}
}

```

MAIN:

```

package com.example.myapp;

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

```

```

import android.view.View;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    Button btnImc, btnCombustivel, btnApresentacao, btnFechar;

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

        // Referenciando os botões
        btnImc = findViewById(R.id.btnImc);
        btnCombustivel = findViewById(R.id.btnCombustivel);
        btnApresentacao = findViewById(R.id.btnApresentacao);
        btnFechar = findViewById(R.id.btnFechar);

        // Ações dos botões
        btnImc.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this, CalculadoraIMCActivity.class);
                startActivity(intent);
            }
        });

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

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

        btnFechar.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                finish(); // Fecha o aplicativo
            }
        });
    }
}

```

```

    });
}
}

```

MANIFEST:

```

<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.myapp">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/AppTheme">

        <activity android:name=".ApresentacaoActivity" />
        <activity android:name=".CalculadoraCombustivelActivity" />
        <activity android:name=".CalculadoraIMCActivity" />
        <activity android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>

```

XML APRESENTACAO:

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="16dp">

    <TextView
        android:id="@+id/txtApresentacao"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Dados do Aluno" />
</LinearLayout>

```

XML CALCULADORA COMBUSTÍVEL:

```
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
```

```
    <EditText
        android:id="@+id/edtGasolina"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Preço da Gasolina"
        android:minHeight="48dp"/>
```

```
    <EditText
        android:id="@+id/edtAlcool"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:minHeight="48dp"
        android:hint="Digite o preço do álcool" />
```

```
    <RadioGroup
        android:id="@+id/rgCombustivel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
```

```
        <RadioButton
            android:id="@+id/rbGasolina"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Gasolina"
            android:minHeight="48dp"/>
```

```
        <RadioButton
            android:id="@+id/rbAlcool"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Álcool"
            android:minHeight="48dp"/>
```

```
</RadioGroup>
```

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

```
        android:text="Resultado" />
```

```
</LinearLayout>
```

XML CALCULADORA IMC:

```
<LinearLayout
```

```
    xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
    android:orientation="vertical"
```

```
    android:padding="16dp">
```

```
    <EditText
```

```
        android:id="@+id/edtPeso"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:minHeight="48dp"
```

```
        android:hint="Digite seu peso"/>
```

```
    <EditText
```

```
        android:id="@+id/edtAltura"
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="wrap_content"
```

```
        android:minHeight="48dp"
```

```
        android:hint="Digite sua altura"/>
```

```
    <Button
```

```
        android:id="@+id/btnCalcular"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="Calcular IMC"/>
```

```
    <Button
```

```
        android:id="@+id/btnLimpar"
```

```
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
```

```
        android:text="Limpar"/>
```

```
</LinearLayout>
```

XML MAIN:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

```
android:orientation="vertical"
android:gravity="center">
```

```
<Button
    android:id="@+id/btnImc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Calculadora IMC" />
```

```
<Button
    android:id="@+id/btnCombustivel"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Calculadora Combustível" />
```

```
<Button
    android:id="@+id/btnApresentacao"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Apresentação" />
```

```
<Button
    android:id="@+id/btnFechar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Fechar App" />
```

```
</LinearLayout>
```


