

activity_apresentacao.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=".ApresentacaoActivity">

    <TextView
        android:id="@+id/tvDadosAluno"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Dados do Aluno"
        android:textSize="18sp"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="30dp"/>

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

ApresentacaoActivity.java

```
package br.com.denis.meuapp;

import android.os.Bundle;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class ApresentacaoActivity extends AppCompatActivity {

    TextView tvDadosAluno;

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

        tvDadosAluno = findViewById(R.id.tvDadosAluno);
        tvDadosAluno.setText("Nome: Denis Augusto\nCurso: Análise e  
Desenvolvimento de Sistemas\nRGM: 32995628\nSemestre:  
4º\nDisciplina: Desenvolvimento Mobile");
    }
}
```

activity_calculadora_combustivel.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=".CalculadoraCombustivelActivity">

    <EditText
        android:id="@+id/etGasolina"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Preço Gasolina"
        android:inputType="numberDecimal"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="30dp"/>

    <EditText
        android:id="@+id/etAlcool"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Preço Álcool"
        android:inputType="numberDecimal"
        app:layout_constraintTop_toBottomOf="@id/etGasolina"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp"/>

    <RadioGroup
        android:id="@+id/radioGroup"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toBottomOf="@id/etAlcool"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp">

        <RadioButton
            android:id="@+id/radioGasolina"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Gasolina" />
    </RadioGroup>
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

        <RadioButton
            android:id="@+id/radioAlcool"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Alcool" />

    </RadioGroup>

    <TextView
        android:id="@+id/tvResultadoCombustivel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Resultado Combustível"
        app:layout_constraintTop_toBottomOf="@id/radioGroup"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp"/>

</androidx.constraintlayout.widget.ConstraintLayout>

```

CalculadoraCombustivelActivity.java

```

package br.com.denis.meuapp;

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 etGasolina, etAlcool;
    RadioGroup radioGroup;
    TextView tvResultadoCombustivel;

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

        etGasolina = findViewById(R.id.etGasolina);
        etAlcool = findViewById(R.id.etAlcool);
        radioGroup = findViewById(R.id.radioGroup);
        tvResultadoCombustivel =
findViewById(R.id.tvResultadoCombustivel);
    }
}

```

```

        radioGroup.setOnCheckedChangeListener((group, checkedId) ->
        {
            double precoGasolina =
Double.parseDouble(etGasolina.getText().toString());
            double precoAlcool =
Double.parseDouble(etAlcool.getText().toString());
            double relacao = precoAlcool / precoGasolina;

            if (checkedId == R.id.radioGasolina) {
                if (relacao > 0.7) {
                    tvResultadoCombustivel.setText("Vale a pena
usar Gasolina.");
                } else {
                    tvResultadoCombustivel.setText("Gasolina está
com uma relação abaixo de 70% do Álcool.");
                }
            } else if (checkedId == R.id.radioAlcool) {
                if (relacao <= 0.7) {
                    tvResultadoCombustivel.setText("Vale a pena
usar Álcool.");
                } else {
                    tvResultadoCombustivel.setText("Álcool está
acima de 70% da Gasolina.");
                }
            }
        });
    }
}

```

Activity_calculadora_imc.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=".CalculadoraIMCActivity">

    <EditText
        android:id="@+id/etPeso"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Peso (kg)"
        android:inputType="numberDecimal"
    >

```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"
android:layout_marginTop="30dp"/>
```

```
<EditText
```

```
    android:id="@+id/etAltura"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:hint="Altura (m)"
    android:inputType="numberDecimal"
    app:layout_constraintTop_toBottomOf="@id/etPeso"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"/>
```

```
<Button
```

```
    android:id="@+id/btnCalcular"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Calcular IMC"
    app:layout_constraintTop_toBottomOf="@id/etAltura"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"/>
```

```
<Button
```

```
    android:id="@+id/btnLimpar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Limpar"
    app:layout_constraintTop_toBottomOf="@id/btnCalcular"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"/>
```

```
<TextView
```

```
    android:id="@+id/tvResultado"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Resultado IMC"
    app:layout_constraintTop_toBottomOf="@id/btnLimpar"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    android:layout_marginTop="20dp"/>
```

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

CalculadoraIMCActivity.java

```
package br.com.denis.meuapp;

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 etPeso, etAltura;
    Button btnCalcular, btnLimpar;
    TextView tvResultado;

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

        etPeso = findViewById(R.id.etPeso);
        etAltura = findViewById(R.id.etAltura);
        btnCalcular = findViewById(R.id.btnCalcular);
        btnLimpar = findViewById(R.id.btnLimpar);
        tvResultado = findViewById(R.id.tvResultado);

        // Cálculo de IMC
        btnCalcular.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                double peso =
Double.parseDouble(etPeso.getText().toString());
                double altura =
Double.parseDouble(etAltura.getText().toString());

                double imc = peso / (altura * altura);
                String classificacao;

                if (imc < 18.5) {
                    classificacao = "Abaixo do peso";
                } else if (imc >= 18.5 && imc < 24.9) {
                    classificacao = "Peso normal";
                } else if (imc >= 25 && imc < 29.9) {
                    classificacao = "Sobrepeso";
                } else {
```

```

        classificacao = "Obesidade";
    }

    tvResultado.setText("IMC: " + imc + " - " +
classificacao);
    }
    });

    // Limpar campos
    btnLimpar.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            etPeso.setText("");
            etAltura.setText("");
            tvResultado.setText("Resultado IMC");
        }
    });
}
}

```

activity_main.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/btnCalculadoraIMC"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Calculadora IMC"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="40dp"/>

    <Button
        android:id="@+id/btnCalculadoraCombustivel"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Calculadora Combustível"
        app:layout_constraintTop_toBottomOf="@id/btnCalculadoraIMC"

```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp"/>

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

app:layout_constraintTop_toBottomOf="@id/btnCalculadoraCombustivel
"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        android:layout_marginTop="20dp"/>

        <Button
            android:id="@+id/btnFecharApp"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Fechar App"
            app:layout_constraintTop_toBottomOf="@id/btnApresentacao"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintEnd_toEndOf="parent"
            android:layout_marginTop="20dp"/>
</androidx.constraintlayout.widget.ConstraintLayout>

```

MainActivity.java

```

package br.com.denis.meuapp;

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 btnCalculadoraIMC, btnCalculadoraCombustivel,
    btnApresentacao, btnFecharApp;

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

        // Referenciando os botões
        btnCalculadoraIMC = findViewById(R.id.btnCalculadoraIMC);
    }
}

```



```
        btnCalculadoraCombustivel =  
findViewById(R.id.btnCalculadoraCombustivel);  
        btnApresentacao = findViewById(R.id.btnApresentacao);  
        btnFecharApp = findViewById(R.id.btnFecharApp);  
  
        // Botão para chamar a Calculadora de IMC  
        btnCalculadoraIMC.setOnClickListener(v -> {  
            Intent intent = new Intent(MainActivity.this,  
CalculadoraIMCActivity.class);  
            startActivity(intent);  
        });  
  
        // Botão para chamar a Calculadora de Combustível  
        btnCalculadoraCombustivel.setOnClickListener(v -> {  
            Intent intent = new Intent(MainActivity.this,  
CalculadoraCombustivelActivity.class);  
            startActivity(intent);  
        });  
  
        // Botão para chamar a Apresentação  
        btnApresentacao.setOnClickListener(v -> {  
            Intent intent = new Intent(MainActivity.this,  
ApresentacaoActivity.class);  
            startActivity(intent);  
        });  
  
        // Botão para fechar o app  
        btnFecharApp.setOnClickListener(v -> finishAffinity()); //  
Fecha todas as activities do app  
    }  
}
```

Telas



