**PL PROJECT: BMI Calculator**

Xml:

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp">  
  
 <TextView  
 android:id="@+id/titleTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="BMI Calculator"  
 android:textSize="24sp"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="24dp"/>  
  
 <EditText  
 android:id="@+id/weightEditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter weight (kg)"  
 android:inputType="numberDecimal"/>  
  
 <EditText  
 android:id="@+id/heightEditText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter height (m)"  
 android:inputType="numberDecimal"  
 android:layout\_below="@id/weightEditText"  
 android:layout\_marginTop="16dp"/>  
  
 <Button  
 android:id="@+id/calculateButton"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Calculate BMI"  
 android:layout\_below="@id/heightEditText"  
 android:layout\_marginTop="16dp"/>  
  
 <TextView  
 android:id="@+id/resultTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/calculateButton"  
 android:layout\_marginTop="24dp"  
 android:textSize="18sp"/>  
  
</RelativeLayout>

Java:

package com.example.bmicalculator;  
  
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 MainActivity extends AppCompatActivity {  
  
 private EditText weightEditText;  
 private EditText heightEditText;  
 private Button calculateButton;  
 private TextView resultTextView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 weightEditText = findViewById(R.id.*weightEditText*);  
 heightEditText = findViewById(R.id.*heightEditText*);  
 calculateButton = findViewById(R.id.*calculateButton*);  
 resultTextView = findViewById(R.id.*resultTextView*);  
  
 calculateButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 calculateBMI();  
 }  
 });  
 }  
  
 private void calculateBMI() {  
 String weightStr = weightEditText.getText().toString();  
 String heightStr = heightEditText.getText().toString();  
  
 if (weightStr.isEmpty() || heightStr.isEmpty()) {  
 resultTextView.setText("Please enter both weight and height.");  
 return;  
 }  
  
 double weight = Double.*parseDouble*(weightStr);  
 double height = Double.*parseDouble*(heightStr);  
 double bmi = weight / (height \* height);  
  
 String result;  
 if (bmi < 18.5) {  
 result = "Underweight";  
 } else if (bmi < 24.9) {  
 result = "Normal weight";  
 } else if (bmi < 29.9) {  
 result = "Overweight";  
 } else {  
 result = "Obesity";  
 }  
  
 resultTextView.setText(String.*format*("Your BMI: %.2f\nCategory: %s", bmi, result));  
 }  
}





