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**Practical 01: Unit Convertor App**

**Objective:**  Create an Android app to convert kilograms into pounds.

**XML CODE**

<?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">

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="237dp"

android:layout\_height="48dp"

android:layout\_marginTop="116dp"

android:ems="10"

android:inputType="textPersonName"

android:text="0"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="72dp"

android:shadowColor="#DC2828"

android:text="CONVERT"

android:textColor="#FAF6F6"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.343"

app:rippleColor="#E31A1A" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="#0C0C0C"

android:textSize="20sp"

app:layout\_constraintBottom\_toTopOf="@+id/button"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName"

app:layout\_constraintVertical\_bias="0.376" />

<TextView

android:id="@+id/textView2"

android:layout\_width="325dp"

android:layout\_height="31dp"

android:text="Enter the value in kilograms below"

android:textColor="#171414"

android:textSize="20sp"

android:textStyle="bold"

app:layout\_constraintBottom\_toTopOf="@+id/editTextTextPersonName"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.729"

tools:text="Enter the value in kilograms below" />

<ImageView

android:id="@+id/imageView"

android:layout\_width="411dp"

android:layout\_height="247dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/editTextTextPersonName"

app:layout\_constraintVertical\_bias="0.721"

app:srcCompat="@drawable/img" />

</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA CODE**

package com.example.unitconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private Button b;

private TextView tv;

private EditText et;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b= findViewById(R.id.button);

tv= findViewById(R.id.textView);

et= findViewById(R.id.editTextTextPersonName);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(MainActivity.this, "Converted Successfully !!!", Toast.LENGTH\_SHORT).show();

String s= et.getText().toString();

int kg= Integer.parseInt(s);

double pound= kg\*2.205;

tv.setText("The corresponding Pounds value is: "+ pound);

}

});

}

}