

# UNIT CONVERSION CALCULATOR

## PROJECT ABSTRACT:

As the project name indicates this application deals in conversion of units from one system to another system.

## APPLICATION INFORMATION:

- Version: "1.0"
- Updated on: 21.04.2021
- Released on: 21.04.2021
- Download size: 9.5 MB
- Application requirements:
  1. Prevent phone from sleeping
  2. Run at startup

## APPLICATION FEATURES:

- To convert units
- Offline feature.

## DESCRIPTION:

- With the help of This project we can analyse the unit readings from one measuring system to another measuring system

## HOW TO INSTALL SRS CURRENCY CONVERTER APK FOR AN ANDROID :

- Download temporary notes APK file from SameAPK.com, then follow these steps:

## UPDATE PHONE SETTINGS:

- Go to your phone Settings page
- Tap Security or Applications (varies with device)
- Check the Unknown Sources box
- Confirm with OK

## GO TO DOWNLOADS:

- Open Downloads on your device by going to My Files or Files
- Tap Install when prompted, the APK file you downloaded will be installed on your device.

## USING EMULATOR:

- Download And Install one Emulator Software's (Ex: Bluestacks, GenyMoti on, NoxPlayer)

## SOURCE CODE:

### 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/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="68dp"
        android:text="KG to Grams"
        app:layout_constraintBottom_toTopOf="@+id/button2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.487"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="1.0" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Grams to kg"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.487"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.572" />

    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="pounds to kg"
        app:layout_constraintBottom_toTopOf="@+id/button4"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button2" />

    <Button
        android:id="@+id/button4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="kg to pounds"
        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="0.884" />

    <ImageView
        android:id="@+id/imageView3"
        android:layout_width="188dp"
        android:layout_height="157dp"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497
```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.322"
        app:srcCompat="@drawable/sa" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity.java

```

package com.example.myapplication;

import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.content.Intent;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {
    private Button button1;
    private Button button2;
    private Button button3;
    private Button button4;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        Toast toast = Toast.makeText(MainActivity.this,
"Welcome", Toast.LENGTH_SHORT);
        toast.show();
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button1 = findViewById(R.id.button);
        button2 = findViewById(R.id.button2);
        button3 = findViewById(R.id.button3);
        button4 = findViewById(R.id.button4);
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                kgtogram();
            }
        });
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                gramtokg();
            }
        });
        button3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                poundstokg();
            }
        });
        button4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                kgtopounds();
            }
        });
    }

    public void kgtogram() {
        Intent intent = new Intent(this, MainActivity1.class);
        startActivity(intent);
    }
    public void gramtokg() {

```

```

        Intent intent = new Intent(this, MainActivity2.class);
        startActivity(intent);
    }

    public void poundstokg() {
        Intent intent = new Intent(this, MainActivity3.class);
        startActivity(intent);
    }

    public void kgtopounds() {
        Intent intent = new Intent(this, MainActivity4.class);
        startActivity(intent);
    }
}

```

### activity\_main1.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=".MainActivity1">

    <TextView
        android:id="@+id/textView"
        android:layout_width="250dp"
        android:layout_height="69dp"
        android:layout_marginTop="108dp"
        android:text="Enter Number of Kilo Grams to convert into grams"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/textView2"
        android:layout_width="250dp"
        android:layout_height="50dp"
        android:layout_marginBottom="416dp"
        android:hint="0.0"
        android:inputType="numberDecimal"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="250dp"
        android:layout_height="50dp"
        android:layout_marginBottom="152dp"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/button5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```

        android:text="convert"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity1.java

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;
import android.widget.Button;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity1 extends AppCompatActivity {
    private Button button;
    private TextView textview;
    private EditText editText;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main1);
        button=findViewById(R.id.button5);
        textview=findViewById(R.id.textView3);
        editText=findViewById(R.id.textView2);
        editText.setText("0");
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String s = editText.getText().toString();
                double kg = Double.parseDouble(s);
                if (kg == 0) {
                    textview.setText("Please Enter valid input");
                } else {
                    double grams = 1000 * kg;
                    textview.setText("The corresponding kg value in the grams is "
+ grams + " gms");
                }
            }
        });
    }
}

```

## activity\_main2.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=".MainActivity2">

    <TextView
        android:id="@+id/textView"
        android:layout_width="250dp"
        android:layout_height="69dp"
        android:layout_marginTop="108dp"
        android:text="Enter Number of Grams to convert into Kilo Grams"
        android:textAlignment="center"

```

```

        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/textView2"
    android:layout_width="250dp"
    android:layout_height="50dp"
    android:layout_marginBottom="416dp"
    android:hint="0.0"
    android:inputType="numberDecimal"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.496"
    app:layout_constraintStart_toStartOf="parent" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="250dp"
    android:layout_height="50dp"
    android:layout_marginBottom="152dp"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.496"
    app:layout_constraintStart_toStartOf="parent" />

<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="convert"
    app:layout_constraintBottom_toTopOf="@+id/textView3"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity2.java

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;
import android.widget.Button;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity2 extends AppCompatActivity {
    private Button button;
    private TextView textView;
    private EditText editText;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main1);
        button=findViewById(R.id.button5);
        textView=findViewById(R.id.textView3);
        editText=findViewById(R.id.textView2);
        editText.setText("0");
        button.setOnClickListener(new View.OnClickListener() {

```

```

        @Override
        public void onClick(View view) {
            String s = editText.getText().toString();
            double grams = Double.parseDouble(s);
            if (grams == 0) {
                textView.setText("Please Enter valid input");
            } else {
                double kg = grams/1000;
                textView.setText("The corresponding gram value in the KGs is "
+ kg + " kgs");
            }
        }
    });
}
}

```

### activity\_main3.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=".MainActivity3">

    <TextView
        android:id="@+id/textView"
        android:layout_width="250dp"
        android:layout_height="69dp"
        android:layout_marginTop="108dp"
        android:text="Enter Number of Pounds to convert into Kilo Grams"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/textView2"
        android:layout_width="250dp"
        android:layout_height="50dp"
        android:layout_marginBottom="416dp"
        android:hint="0.0"
        android:inputType="numberDecimal"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="250dp"
        android:layout_height="50dp"
        android:layout_marginBottom="152dp"
        android:textAlignment="center"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent" />

    <Button
        android:id="@+id/button5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```

        android:text="convert"
        app:layout_constraintBottom_toTopOf="@+id/textView3"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity3.java

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;
import android.widget.Button;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity3 extends AppCompatActivity {
    private Button button;
    private TextView textview;
    private EditText editText;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main1);
        button=findViewById(R.id.button5);
        textview=findViewById(R.id.textView3);
        editText=findViewById(R.id.textView2);
        editText.setText("0");
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String s = editText.getText().toString();
                double pounds = Double.parseDouble(s);
                if (pounds == 0) {
                    textview.setText("Please Enter valid input");
                } else {
                    double kg = 2.202 * pounds;
                    textview.setText("The corresponding pound value in kgs is " +
kg + " kgs");
                }
            }
        });
    }
}

```

## activity\_main4.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=".MainActivity4">

    <TextView
        android:id="@+id/textView"
        android:layout_width="250dp"
        android:layout_height="69dp"
        android:layout_marginTop="108dp"

```



```

        android:text="Enter Number of Kilo Grams to convert into Pounds"
        android:textAlignment="center"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<EditText
    android:id="@+id/textView2"
    android:layout_width="250dp"
    android:layout_height="50dp"
    android:layout_marginBottom="416dp"
    android:hint="0.0"
    android:inputType="numberDecimal"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.496"
    app:layout_constraintStart_toStartOf="parent"
    android:autoFillHints="" />

<TextView
    android:id="@+id/textView3"
    android:layout_width="250dp"
    android:layout_height="50dp"
    android:layout_marginBottom="152dp"
    android:textAlignment="center"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.496"
    app:layout_constraintStart_toStartOf="parent" />

<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="convert"
    app:layout_constraintBottom_toTopOf="@+id/textView3"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

## MainActivity4.java

```

package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.view.View;
import android.widget.Button;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity4 extends AppCompatActivity {
    private Button button;
    private TextView textview;
    private EditText editText;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main1);
        button=findViewById(R.id.button5);
    }
}

```

```

textView=findViewById(R.id.textView3);
editText=findViewById(R.id.textView2);
editText.setText("0");
button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String s = editText.getText().toString();
        double kg = Double.parseDouble(s);
        if (kg == 0) {
            textView.setText("Please Enter valid input");
        } else {
            double pounds = kg/2.202 ;
            textView.setText("The corresponding kg value in pounds is " +
pounds + " pounds");
        }
    }
});
}
}

```

## OUTPUT:

