

UNIT CONVERTER ANDROID DEVELOPMENT

XML FILES:-

Main activity xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"

    tools:context=".MainActivity">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="UNIT CONVERTER"
        android:textSize="40dp"
        android:textColor="@color/white"
        android:background="#1A023C"
        android:textAlignment="center"
        android:gravity="center"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="300px"
        android:background="#1A023C"
        android:gravity="center"
        android:layout_margin="20dp"

        android:orientation="horizontal">
        <TextView
            android:layout_width="250dp"
            android:layout_height="100dp"
            android:background="#F47272"
            android:text="Area"
            android:textSize="40dp"
            android:textColor="@color/black"
            android:textAlignment="center"
            android:gravity="center"
            android:id="@+id/distance"
            />
        <ImageView
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:src="@drawable/area"
            />
    </LinearLayout>
</LinearLayout>
```

```

        android:layout_height="300px"
        android:background="#1A023C"
        android:layout_margin="20dp"

        android:gravity="center"
        android:orientation="horizontal">
        <TextView
            android:layout_width="250dp"
            android:layout_height="100dp"
            android:background="#F47272"
            android:text="Weight"
            android:textSize="40dp"
            android:textAlignment="center"
            android:gravity="center"
            android:id="@+id/weight"
            android:textColor="@color/black"
        />
        <ImageView
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:src="@drawable/weight"
        />
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="300px"
        android:background="#1A023C"
        android:gravity="center"
        android:layout_margin="20dp"

        android:orientation="horizontal">
        <TextView
            android:layout_width="250dp"
            android:layout_height="100dp"
            android:background="#F47272"
            android:text="Temperature"
            android:textSize="40dp"
            android:textColor="@color/black"
            android:textAlignment="center"
            android:gravity="center"
            android:id="@+id/temp"
        />
        <ImageView
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:src="@drawable/thermometer"
        />
    </LinearLayout>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="300px"
        android:background="#1A023C"
        android:gravity="center"
        android:layout_margin="20dp"

        android:orientation="horizontal">

```

```

        <TextView
            android:layout_width="250dp"
            android:layout_height="100dp"
            android:background="#F47272"
            android:text="Speed"
            android:textSize="40dp"
            android:textColor="@color/black"
            android:textAlignment="center"
            android:gravity="center"
            android:id="@+id/speed"
        />
        <ImageView
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:src="@drawable/speedometer"
        />
    </LinearLayout>

</LinearLayout>

```

Activity_distance.xml:-

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"
    tools:context=".Distances">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="Area converter"
        android:textSize="40dp"
        android:textAlignment="center"
        android:gravity="center"
        android:textColor="@color/white"
    />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:textColor="@color/white"

        android:hint="enter the value to convert"
        android:id="@+id/ed1"/>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="200dp"
        android:orientation="horizontal">

```

```

        <LinearLayout
            android:layout_width="200dp"
            android:layout_height="300dp"
            android:orientation="vertical">
            <TextView
                android:layout_width="200dp"
                android:layout_height="100dp"
                android:text="From select measure"
                android:textSize="20dp"
                android:gravity="center"
                android:layout_centerHorizontal="true"
                android:layout_marginTop="20dp"
                android:textColor="@color/white"
                android:id="@+id/txt"
            />

            <Spinner
                android:layout_width="200dp"
                android:layout_height="50dp"

                android:id="@+id/spinner"

                android:background="@android:drawable/btn_dropdown"

            />

        </LinearLayout>

<LinearLayout
    android:layout_width="200dp"
    android:layout_height="300dp"
    android:orientation="vertical">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="To select measure"
        android:textSize="20dp"
        android:gravity="center"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:textColor="@color/white"
        android:id="@+id/txt1"
    />

    <Spinner
        android:layout_width="200dp"
        android:layout_height="50dp"

        android:id="@+id/spinner1"

        android:background="@android:drawable/btn_dropdown"

    />
</LinearLayout>

```

```

</LinearLayout>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="0"
    android:gravity="center"
    android:layout_marginTop="10dp"
    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/textans"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="answer"
    android:gravity="center"

    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/ans1"
    android:background="#F47272"
/>
</LinearLayout>

```

Activity_speed.xml:-

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"
    tools:context=".Speed">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="speed converter"
        android:textSize="30dp"
        android:textAlignment="center"
        android:gravity="center"
        android:textColor="@color/white"
        />

    <EditText
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:textColor="@color/white"

        android:hint="enter the value to convert"
        android:id="@+id/ed1"/>

```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:orientation="horizontal">
    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="200dp"
            android:layout_height="100dp"
            android:text="From select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt"
        />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner"

            android:background="@android:drawable/btn_dropdown"

        />

    </LinearLayout>

    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="100dp"
            android:text="To select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt1"
        />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner1"

```

```

        android:background="@android:drawable/btn_dropdown"

        />
    </LinearLayout>
</LinearLayout>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="0"
    android:gravity="center"
    android:layout_marginTop="10dp"
    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/textans"
    />
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="answer"
    android:gravity="center"

    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/ans1"
    android:background="#F47272"
    />
</LinearLayout>

```

Activity_temperature.xml:-

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"
    tools:context=".Temperature">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="Temperature converter"
        android:textSize="30dp"
        android:textAlignment="center"
        android:gravity="center"
        android:textColor="@color/white"
        />
    <EditText
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:textColor="@color/white"

```

```

        android:hint="enter the value to convert"
        android:id="@+id/ed1"/>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:orientation="horizontal">
    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="200dp"
            android:layout_height="100dp"
            android:text="From select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt"
            />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner"

            android:background="@android:drawable/btn_dropdown"

            />

    </LinearLayout>

    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="100dp"
            android:text="To select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt1"
            />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

```



```

        android:id="@+id/spinner1"

        android:background="@android:drawable/btn_dropdown"

    />
</LinearLayout>
</LinearLayout>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="0"
    android:gravity="center"
    android:layout_marginTop="10dp"
    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/textans"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="answer"
    android:gravity="center"

    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/ans1"
    android:background="#F47272"
/>
</LinearLayout>

```

Activity_weights.xml:-

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"
    tools:context=".Weights">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="100dp"
        android:text="Weight converter"
        android:textSize="30dp"
        android:textAlignment="center"
        android:gravity="center"
        android:textColor="@color/white"
    />

```

```

<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:textColor="@color/white"

    android:hint="enter the value to convert"
    android:id="@+id/ed1"/>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:orientation="horizontal">
    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="200dp"
            android:layout_height="100dp"
            android:text="From select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt"
            />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner"

            android:background="@android:drawable/btn_dropdown"

            />
        </LinearLayout>
    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="100dp"
            android:text="To select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt1"
            />
    </LinearLayout>
</LinearLayout>

```

```

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner1"

            android:background="@android:drawable/btn_dropdown"

        />
    </LinearLayout>
</LinearLayout>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="0"
    android:gravity="center"
    android:layout_marginTop="10dp"
    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/textans"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="answer"
    android:gravity="center"

    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/ans1"
    android:background="#F47272"
/>
</LinearLayout>

```

JAVA FILES:-

Main_activity.java:-

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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"
    android:orientation="vertical"
    android:background="#1A023C"
    tools:context=".Weights">

```

```

<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="Weight converter"
    android:textSize="30dp"
    android:textAlignment="center"
    android:gravity="center"
    android:textColor="@color/white"
/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:textColor="@color/white"

    android:hint="enter the value to convert"
    android:id="@+id/ed1"/>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:orientation="horizontal">
    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="200dp"
            android:layout_height="100dp"
            android:text="From select measure"
            android:textSize="20dp"
            android:gravity="center"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:textColor="@color/white"
            android:id="@+id/txt"
        />

        <Spinner
            android:layout_width="200dp"
            android:layout_height="50dp"

            android:id="@+id/spinner"

            android:background="@android:drawable/btn_dropdown"

        />

    </LinearLayout>

    <LinearLayout
        android:layout_width="200dp"
        android:layout_height="300dp"
        android:orientation="vertical">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="100dp"

```

```

        android:text="To select measure"
        android:textSize="20dp"
        android:gravity="center"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:textColor="@color/white"
        android:id="@+id/txt1"
    />

    <Spinner
        android:layout_width="200dp"
        android:layout_height="50dp"

        android:id="@+id/spinner1"

        android:background="@android:drawable/btn_dropdown"

    />
</LinearLayout>
</LinearLayout>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="0"
    android:gravity="center"
    android:layout_marginTop="10dp"
    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/textans"
/>
<TextView
    android:layout_width="match_parent"
    android:layout_height="100dp"
    android:text="answer"
    android:gravity="center"

    android:textSize="30dp"
    android:textColor="@color/white"
    android:id="@+id/ans1"
    android:background="#F47272"
/>
</LinearLayout>

```

Activity_distance.java:-

```

package com.example.unitconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;

```

```

import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.Adapter;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class Distances extends AppCompatActivity {
    Spinner spinner, spinner1;
    EditText ed1;
    TextView ans, anw1;
    String measures[]={"mm2", "cm2", "dm2", "m2", "dam2", "hm2", "km2"};
    int ed;
    String value, value1;
    double a;
    @SuppressWarnings("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_distances);
        anw1=findViewById(R.id.ans1);
        spinner=findViewById(R.id.spinner);
        spinner1=findViewById(R.id.spinner1);
        ed1=findViewById(R.id.ed1);

        ans=findViewById(R.id.textans);
        ArrayAdapter<String> adapter=new ArrayAdapter<>(Distances.this,
        android.R.layout.simple_spinner_item, measures);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
        );
        spinner.setAdapter(adapter);
        spinner1.setAdapter(adapter);
        spinner.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
            int i, long l) {
                value=adapterView.getItemAtPosition(i).toString();

            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }

        });
        spinner1.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {

            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
            int i, long l) {
                value1=adapterView.getItemAtPosition(i).toString();

```

```

    }

    @Override
    public void onNothingSelected(AdapterView<?> adapterView) {

    }

});
anw1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        try {
            ed = Integer.parseInt(ed1.getText().toString());
            if(value.equals("mm2"))
            {
                if(value1.equals("mm2"))
                {
                    ans.setText(ed+" ");
                }
                else if(value1.equals("cm2"))
                {
                    a=ed*1.0/100;
                    ans.setText(a+" ");
                }
                else if(value1.equals("dm2"))
                {
                    a=ed*1.0/10000;
                    ans.setText(a+" ");
                }
                else if(value1.equals("m2"))
                {
                    a=ed*1.0/1000000;
                    ans.setText(a+" ");
                }
                else if(value1.equals("dam2"))
                {
                    a=ed*1.0/100000000;
                    ans.setText(a+" ");
                }
                else if(value1.equals("hm2"))
                {
                    ans.setText(ed+"*power(10,-10) ");
                }
                else if(value1.equals("km2"))
                {
                    ans.setText(ed+"*power(10,-12) ");
                }
            }
            else if(value.equals("cm2"))
            {
                if(value1.equals("mm2"))
                {
                    ans.setText(ed*100+" ");
                }
                else if(value1.equals("cm2"))
                {
                    ans.setText(ed+" ");
                }
            }
        }
    }
});

```

```

    }
    else if(value1.equals("dm2"))
    {
        a=ed*1.0/100;
        ans.setText(a+" ");
    }
    else if(value1.equals("m2"))
    {
        a=ed*1.0/10000;
        ans.setText(a+" ");
    }
    else if(value1.equals("dam2"))
    {
        a=ed*1.0/1000000;
        ans.setText(a+" ");
    }
    else if(value1.equals("hm2"))
    {
        a=ed*1.0/100000000;
        ans.setText(a+" ");
    }
    else if(value1.equals("km2"))
    {
        ans.setText(ed+"*power(10,-10)");
    }
}
else if(value.equals("dm2"))
{
    if(value1.equals("mm2"))
    {
        ans.setText(ed*10000+" ");
    }
    else if(value1.equals("cm2"))
    {
        a=ed*100;
        ans.setText(a+" ");
    }
    else if(value1.equals("dm2"))
    {
        a=ed;
        ans.setText(a+" ");
    }
    else if(value1.equals("m2"))
    {
        a=ed*1.0/100;
        ans.setText(a+" ");
    }
    else if(value1.equals("dam2"))
    {
        a=ed*1.0/10000;
        ans.setText(a+" ");
    }
    else if(value1.equals("hm2"))
    {
        a=ed*1.0/1000000;
        ans.setText(a+" ");
    }
}

```



```

        else if(value1.equals("km2"))
        {
            a=ed*1.0/1000000000;
            ans.setText(a+" ");
        }
    }
    else if(value.equals("m2"))
    {
        if(value1.equals("mm2"))
        {
            ans.setText(ed*1000000+" ");
        }
        else if(value1.equals("cm2"))
        {
            a=ed*10000;
            ans.setText(a+" ");
        }
        else if(value1.equals("dm2"))
        {
            a=ed*100;
            ans.setText(a+" ");
        }
        else if(value1.equals("m2"))
        {
            a=ed;
            ans.setText(a+" ");
        }
        else if(value1.equals("dam2"))
        {
            a=ed*1.0/100;
            ans.setText(a+" ");
        }
        else if(value1.equals("hm2"))
        {
            a=ed*1.0/10000;
            ans.setText(a+" ");
        }
        else if(value1.equals("km2"))
        {
            a=ed*1.0/1000000;
            ans.setText(a+" ");
        }
    }
}
else if(value.equals("dam2"))
{
    if(value1.equals("mm2"))
    {
        ans.setText(ed*1000000000+" ");
    }
    else if(value1.equals("cm2"))
    {
        a=ed*1000000;
        ans.setText(a+" ");
    }
    else if(value1.equals("dm2"))
    {

```

```

        a=ed*10000;
        ans.setText(a+" ");
    }
    else if(value1.equals("m2"))
    {
        a=ed*100;
        ans.setText(a+" ");
    }
    else if(value1.equals("dam2"))
    {
        a=ed;
        ans.setText(a+" ");
    }
    else if(value1.equals("hm2"))
    {
        a=ed*1.0/100;
        ans.setText(a+" ");
    }
    else if(value1.equals("km2"))
    {
        a=ed*1.0/10000;
        ans.setText(a+" ");
    }
}
else if(value.equals("hm2"))
{
    if(value1.equals("mm2"))
    {
        ans.setText(ed+"*power(10,10) ");
    }
    else if(value1.equals("cm2"))
    {
        a=ed*100000000;
        ans.setText(a+" ");
    }
    else if(value1.equals("dm2"))
    {
        a=ed*1000000;
        ans.setText(a+" ");
    }
    else if(value1.equals("m2"))
    {
        a=ed*10000;
        ans.setText(a+" ");
    }
    else if(value1.equals("dam2"))
    {
        a=ed*100;
        ans.setText(a+" ");
    }
    else if(value1.equals("hm2"))
    {
        a=ed;
        ans.setText(a+" ");
    }
    else if(value1.equals("km2"))

```

```

        {
            a=ed*1.0/100;
            ans.setText(a+" ");
        }
    }
    else if(value.equals("km2"))
    {
        if(value1.equals("mm2"))
        {
            ans.setText(ed+"*power(10,12) ");
        }
        else if(value1.equals("cm2"))
        {
            ans.setText(ed+"*power(10,10)");
        }
        else if(value1.equals("dm2"))
        {
            a=ed*100000000;
            ans.setText(a+" ");
        }
        else if(value1.equals("m2"))
        {
            a=ed*1000000;
            ans.setText(a+" ");
        }
        else if(value1.equals("dam2"))
        {
            a=ed*10000;
            ans.setText(a+" ");
        }
        else if(value1.equals("hm2"))
        {
            a=ed*100;
            ans.setText(a+" ");
        }
        else if(value1.equals("km2"))
        {
            a=ed;
            ans.setText(a+" ");
        }
    }
}
}
catch (Exception e)
{
    Toast.makeText(Distances.this, "enter only integer
values...", Toast.LENGTH_SHORT).show();
}
}
});
}
}

```

activity_speed.java:-

```
package com.example.unitconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.Adapter;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class Speed extends AppCompatActivity {
    Spinner spinner, spinner1;
    EditText ed1;
    TextView ans, anw1;
    String measures[]={"km/hr", "m/s"};
    int ed;
    String value, value1;

    double a;

    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_speed);
        anw1=findViewById(R.id.ans1);
        spinner=findViewById(R.id.spinner);
        spinner1=findViewById(R.id.spinner1);
        ed1=findViewById(R.id.ed1);

        ans=findViewById(R.id.textans);
        ArrayAdapter<String> adapter=new ArrayAdapter<>(Speed.this,
        android.R.layout.simple_spinner_item,measures);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
        );

        spinner.setAdapter(adapter);
        spinner1.setAdapter(adapter);
        spinner.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
            int i, long l) {
                value=adapterView.getItemAtPosition(i).toString();

            }

            @Override
```

```

        public void onNothingSelected(AdapterView<?> adapterView) {

        }

    });
    spinner1.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {

        @Override
        public void onItemSelected(AdapterView<?> adapterView, View view,
int i, long l) {
            value1=adapterView.getItemAtPosition(i).toString();

        }

        @Override
        public void onNothingSelected(AdapterView<?> adapterView) {

        }

    });
    anw1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            try {
                ed = Integer.parseInt(ed1.getText().toString());
                if(value.equals("km/hr"))
                {
                    if(value1.equals("km/hr"))
                    {
                        ans.setText(ed+" "+value1);
                    }
                    else if(value1.equals("m/s"))
                    {
                        ans.setText(ed/3.6+" "+value1);
                    }
                }
                else if(value.equals("m/s"))
                {
                    if(value1.equals("km/hr"))
                    {
                        ans.setText(ed*3.6+" "+value1);
                    }
                    else if(value1.equals("m/s"))
                    {
                        ans.setText(ed+" "+value1);
                    }
                }
            }
            catch (Exception e)
            {
                Toast.makeText(Speed.this, "integer values are only
allowed", Toast.LENGTH_SHORT).show();
            }

        }

    });

```

```
}  
}
```

activity_temperature.java:-

```
package com.example.unitconverter;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.annotation.SuppressLint;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.AdapterView.Adapter;  
import android.widget.ArrayAdapter;  
import android.widget.EditText;  
import android.widget.Spinner;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import java.text.DecimalFormat;  
import java.math.*;  
  
public class Temperature extends AppCompatActivity {  
    Spinner spinner, spinner1;  
    EditText ed1;  
    TextView ans, anw1;  
    String measures[]={"kelvin", "celsius", "fahrenheit"};  
    int ed;  
    String value, value1;  
  
    double a;  
    @SuppressWarnings("MissingInflatedId")  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_temperature);  
        anw1=findViewById(R.id.ans1);  
        spinner=findViewById(R.id.spinner);  
        spinner1=findViewById(R.id.spinner1);  
        ed1=findViewById(R.id.ed1);  
  
        ans=findViewById(R.id.textans);  
        ArrayAdapter<String> adapter=new ArrayAdapter<>(Temperature.this,  
        android.R.layout.simple_spinner_item, measures);  
  
        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item  
        );  
    }  
}
```

```

        spinner.setAdapter(adapter);
        spinner1.setAdapter(adapter);
        spinner.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
                value=adapterView.getItemAtPosition(i).toString();

            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }

        });
        spinner1.setOnItemClickListener(new
AdapterView.OnItemClickListener() {

            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
                value1=adapterView.getItemAtPosition(i).toString();

            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }

        });
        anw1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                try {
                    ed=Integer.parseInt(ed1.getText().toString());
                    if (value.equals("kelvin")) {
                        if (value1.equals("fahrenheits")) {
                            a = ((ed * 1.0) - 273.15) * 1.8 + 32;
                            ans.setText(a + "°F");
                        } else if (value1.equals("celsius")) {
                            a = ed - 273.5;
                            ans.setText(a + "°C");
                        } else if (value1.equals("kelvin")) {
                            ans.setText(ed + "K");
                        }
                    } else if (value.equals("fahrenheits")) {
                        if (value1.equals("fahrenheits")) {
                            ans.setText(ed + "°F");
                        } else if (value1.equals("celsius")) {
                            a = (ed - 32) / 1.8;
                            ans.setText(a + "°C");
                        } else if (value1.equals("kelvin")) {
                            a = ((ed - 32) / 1.8 )+ 273.5;

```

```

        ans.setText(a + "K");
    }
    } else if (value.equals("celsius")) {
        if (value1.equals("fahrenheits")) {
            a = (ed*1.8)+32;
            ans.setText(a + "°F");
        } else if (value1.equals("celsius")) {

            ans.setText(ed + "°C");
        } else if (value1.equals("kelvin")) {
            a=ed+273.5;
            ans.setText(a + "K");
        }
    }
}
}
catch(Exception e)
{
    Toast.makeText(Temperature.this, "enter only integer
values", Toast.LENGTH_SHORT).show();
}
}
});
}
}

```

activity_weights.java:-

```

package com.example.unitconverter;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class Weights extends AppCompatActivity {
    Spinner spinner,spinner1;
    EditText ed1;
    TextView ans,anw1;
    String measures[]={"pg","ng","µg","mg","g","kg","t","Mt","Gt"};
    int ed;
    String value,value1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```



```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_weights);
        anw1=findViewById(R.id.ans1);
        spinner=findViewById(R.id.spinner);
        spinner1=findViewById(R.id.spinner1);
        ed1=findViewById(R.id.ed1);

        ans=findViewById(R.id.textans);
        ArrayAdapter<String> adapter=new ArrayAdapter<>(Weights.this,
        android.R.layout.simple_spinner_item,measures);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item
        );
        spinner.setAdapter(adapter);
        spinner1.setAdapter(adapter);
        spinner.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
            int i, long l) {
                value=adapterView.getItemAtPosition(i).toString();

            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }

        });
        spinner1.setOnItemClickListener(new
        AdapterView.OnItemClickListener() {

            @Override
            public void onItemClick(AdapterView<?> adapterView, View view,
            int i, long l) {
                value1=adapterView.getItemAtPosition(i).toString();

            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }

        });

        anw1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                try {
                    ed=Integer.parseInt(ed1.getText().toString());
                    if(value.equals("pg"))
                    {
                        if(value1.equals("pg"))
                        {
                            ans.setText(ed+" "+value1);

```

```

    }
    else if(value1.equals("ng"))
    {
        ans.setText(ed/1000+" "+value1);
    }
    else if(value1.equals("µg"))
    {
        ans.setText(ed/1000000+" "+value1);
    }
    else if(value1.equals("mg"))
    {
        ans.setText(ed/1000000000+" "+value1);
    }
    else if(value1.equals("g"))
    {
        ans.setText(0.000000000001*ed+" "+value1);
    }
    else if(value1.equals("kg"))
    {
        ans.setText(0.0000000000000001*ed+" "+value1);
    }
    else if(value1.equals("t"))
    {
        ans.setText(0.000000000000000001*ed+" "+value1);
    }
    else if(value1.equals("Mt"))
    {
        ans.setText(0.00000000000000000001*ed+"
"+value1);
    }
    else if(value1.equals("Gt"))
    {
        ans.setText(0.0000000000000000000001*ed+"
"+value1);
    }
}
else if(value.equals("ng"))
{
    if(value1.equals("pg"))
    {
        ans.setText(ed*1000+" "+value1);
    }
    else if(value1.equals("ng"))
    {
        ans.setText(ed+" "+value1);
    }
    else if(value1.equals("µg"))
    {
        ans.setText(ed/1000+" "+value1);
    }
    else if(value1.equals("mg"))
    {
        ans.setText(ed/1000000+" "+value1);
    }
    else if(value1.equals("g"))
    {
        ans.setText(0.000000001*ed+" "+value1);
    }

```



```

    }
    else if (value.equals("mg"))
    {
        if (value1.equals("pg"))
        {
            ans.setText(ed*10000000000+" "+value1);
        }
        else if (value1.equals("ng"))
        {
            ans.setText(ed*1000000+" "+value1);
        }
        else if (value1.equals("µg"))
        {
            ans.setText(ed*1000+" "+value1);
        }
        else if (value1.equals("mg"))
        {
            ans.setText(ed+" "+value1);
        }
        else if (value1.equals("g"))
        {
            ans.setText(0.001*ed+" "+value1);
        }
        else if (value1.equals("kg"))
        {
            ans.setText(0.000001*ed+" "+value1);
        }
        else if (value1.equals("t"))
        {
            ans.setText(0.000000001*ed+" "+value1);
        }
        else if (value1.equals("Mt"))
        {
            ans.setText(0.000000000001*ed+" "+value1);
        }
        else if (value1.equals("Gt"))
        {
            ans.setText(0.000000000000001*ed+" "+value1);
        }
    }
    else if (value.equals("g"))
    {
        if (value1.equals("pg"))
        {
            ans.setText(ed+"*power(10,12)"+value1);
        }
        else if (value1.equals("ng"))
        {
            ans.setText(ed*10000000000+" "+value1);
        }
        else if (value1.equals("µg"))
        {
            ans.setText(ed*1000000+" "+value1);
        }
        else if (value1.equals("mg"))
        {
            ans.setText(ed*1000+" "+value1);
        }
    }

```

```

    }
    else if(value1.equals("g"))
    {
        ans.setText(ed+" "+value1);
    }
    else if(value1.equals("kg"))
    {
        ans.setText(0.001*ed+" "+value1);
    }
    else if(value1.equals("t"))
    {
        ans.setText(0.000001*ed+" "+value1);
    }
    else if(value1.equals("Mt"))
    {
        ans.setText(0.000000001*ed+" "+value1);
    }
    else if(value1.equals("Gt"))
    {
        ans.setText(0.0000000000001*ed+" "+value1);
    }
}
else if(value.equals("kg"))
{
    if(value1.equals("pg"))
    {
        ans.setText(ed+"*power(10,15)"+value1);
    }
    else if(value1.equals("ng"))
    {
        ans.setText(ed+"*power(10,12)"+value1);
    }
    else if(value1.equals("µg"))
    {
        ans.setText(ed*10000000000+" "+value1);
    }
    else if(value1.equals("mg"))
    {
        ans.setText(ed*1000000+" "+value1);
    }
    else if(value1.equals("g"))
    {
        ans.setText(ed*1000+" "+value1);
    }
    else if(value1.equals("kg"))
    {
        ans.setText(ed+" "+value1);
    }
    else if(value1.equals("t"))
    {
        ans.setText(0.001*ed+" "+value1);
    }
    else if(value1.equals("Mt"))
    {
        ans.setText(0.000001*ed+" "+value1);
    }
    else if(value1.equals("Gt"))

```

```

        {
            ans.setText(0.000000001*ed+" "+value1);
        }
    }
    else if(value.equals("t"))
    {
        if(value1.equals("pg"))
        {
            ans.setText(ed+"*power(10,18) "+value1);
        }
        else if(value1.equals("ng"))
        {
            ans.setText(ed+"*power(10,15) "+value1);
        }
        else if(value1.equals("µg"))
        {
            ans.setText(ed+"*power(10,12) "+value1);
        }
        else if(value1.equals("mg"))
        {
            ans.setText(ed*1000000000+" "+value1);
        }
        else if(value1.equals("g"))
        {
            ans.setText(ed*1000000+" "+value1);
        }
        else if(value1.equals("kg"))
        {
            ans.setText(ed*1000+" "+value1);
        }
        else if(value1.equals("t"))
        {
            ans.setText(ed+" "+value1);
        }
        else if(value1.equals("Mt"))
        {
            ans.setText(0.001*ed+" "+value1);
        }
        else if(value1.equals("Gt"))
        {
            ans.setText(0.000001*ed+" "+value1);
        }
    }
}
else if(value.equals("Mt"))
{
    if(value1.equals("pg"))
    {
        ans.setText(ed+"*power(10,21) "+value1);
    }
    else if(value1.equals("ng"))
    {
        ans.setText(ed+"*power(10,18) "+value1);
    }
    else if(value1.equals("µg"))
    {
        ans.setText(ed+"*power(10,15) "+value1);
    }
}

```

```

else if(value1.equals("mg"))
{
    ans.setText(ed+"*power(10,12) "+value1);
}
else if(value1.equals("g"))
{
    ans.setText(ed*1000000000+" "+value1);
}
else if(value1.equals("kg"))
{
    ans.setText(ed*1000000+" "+value1);
}
else if(value1.equals("t"))
{
    ans.setText(ed*1000+" "+value1);
}
else if(value1.equals("Mt"))
{
    ans.setText(ed+" "+value1);
}
else if(value1.equals("Gt"))
{
    ans.setText(0.001*ed+" "+value1);
}
}
else if(value.equals("Gt"))
{
    if(value1.equals("pg"))
    {
        ans.setText(ed+"*power(10,24) "+value1);
    }
    else if(value1.equals("ng"))
    {
        ans.setText(ed+"*power(10,21) "+value1);
    }
    else if(value1.equals("µg"))
    {
        ans.setText(ed+"*power(10,18) "+value1);
    }
    else if(value1.equals("mg"))
    {
        ans.setText(ed+"*power(10,15) "+value1);
    }
    else if(value1.equals("g"))
    {
        ans.setText(ed+"*power(10,12) "+value1);
    }
    else if(value1.equals("kg"))
    {
        ans.setText(ed*1000000000+" "+value1);
    }
    else if(value1.equals("t"))
    {
        ans.setText(ed*1000000+" "+value1);
    }
    else if(value1.equals("Mt"))
    {

```

```

        ans.setText(ed*1000+" "+value1);
    }
    else if(value1.equals("Gt"))
    {
        ans.setText(ed+" "+value1);
    }
    }
    }
    catch(Exception e)
    {
        Toast.makeText(Weights.this, "enter integer value only",
Toast.LENGTH_SHORT).show();
    }
    }
    });
}
}

```






