



STIW2044: Mobile Programming

Semester 182

Lab 1

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Java Class File

```
package silenthlive.com.unitconversion;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

    EditText txtM,txtl,txtF,txtY,txtMi,txtNM;
    Button button1,button2;

    EditText txtKg,txtOn,txtPo,txtTp,txtSt,txtSTo,txtLT;
    Button button3,button4;

    EditText txtL,txtFluid,txtQua,txtG,txtImp;
    Button button5,button6;

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

    public void calculateDistance(View v){
        txtM = findViewById(R.id.editText);
        txtl = findViewById(R.id.editText4);
        txtF = findViewById(R.id.editText5);
```

```
txtY = findViewById(R.id.editText6);  
txtMi = findViewById(R.id.editText7);  
txtNM = findViewById(R.id.editText8);  
button1 = findViewById(R.id.button1);  
button2 = findViewById(R.id.button2);
```

```
//RESET BUTTON
```

```
button1.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        txtM.setText("");  
        txtI.setText("");  
        txtF.setText("");  
        txtY.setText("");  
        txtMi.setText("");  
        txtNM.setText("");  
    }  
});
```

```
//CALCULATE BUTTON
```

```
button2.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        double t,nM,nI,nF,nY,nMi,nNM;  
        String n = txtM.getText().toString();  
        String n1 = txtI.getText().toString();  
        String n2 = txtF.getText().toString();  
        String n3 = txtY.getText().toString();  
        String n4 = txtMi.getText().toString();  
        String n5 = txtNM.getText().toString();
```

```
if(n1.equals("")&& n2.equals("")&&n3.equals("")&&n4.equals("")&&
n5.equals("")) {
```

```
    t = Double.parseDouble(n);
```

```
    nI = t * 39.3701;
```

```
    nF = t * 3.28084;
```

```
    nY = t * 1.09361;
```

```
    nMi = t * 0.00062;
```

```
    nNM = t * 0.00054;
```

```
    txtM.setText(""+t);
```

```
    txtI.setText(""+nI);
```

```
    txtF.setText(""+nF);
```

```
    txtY.setText(""+nY);
```

```
    txtMi.setText(""+nMi);
```

```
    txtNM.setText(""+nNM);
```

```
}
```

```
else if(n.equals("")&& n2.equals("")&&n3.equals("")&&n4.equals("")&&
n5.equals("")) {
```

```
    t= Double.parseDouble(n1);
```

```
    nM = t * 0.02540;
```

```
    nF = t * 0.083;
```

```
    nY = t* 0.027778;
```

```
    nMi = t* 0.000015783;
```

```
    nNM = t * 0.000013706;
```

```
    txtM.setText(""+nM);
```

```
    txtI.setText(""+t);
```

```
    txtF.setText(""+nF);
```

```
    txtY.setText(""+nY);
```

```
    txtMi.setText(""+nMi);
```

```
    txtNM.setText(""+nNM);
```

```

}

else if(n.equals("") && n1.equals("") && n3.equals("") && n4.equals("") &&
n5.equals("")) {

    t= Double.parseDouble(n2);

    nM = t /3.2808;

    nI = t * 12;

    nY = t * 0.333;

    nMi = t* 0.00019;

    nNM = t * 0.000165;

    txtM.setText(""+nM);

    txtI.setText(""+nI);

    txtF.setText(""+t);

    txtY.setText(""+nY);

    txtMi.setText(""+nMi);

    txtNM.setText(""+nNM);

}

else if(n.equals("") && n1.equals("") && n2.equals("") && n4.equals("") &&
n5.equals("")) {

    t= Double.parseDouble(n3);

    nM = t /1.0936;

    nI = t * 36;

    nF = t* 3;

    nMi = t* 0.00005618;

    nNM = t * 0.00049342;

    txtM.setText(""+nM);

    txtI.setText(""+nI);

    txtF.setText(""+nF);

    txtY.setText(""+t);

    txtMi.setText(""+nMi);

    txtNM.setText(""+nNM);

}

```

```

else if(n.equals("")&& n1.equals("")&&n2.equals("")&&n3.equals("")&&
n5.equals("")) {
    t= Double.parseDouble(n4);
    nM = t /0.000621;
    nI = t * 63360;
    nF = t * 5280;
    nY = t * 1760 ;
    nNM = t * 0.868;
    txtM.setText(""+nM);
    txtI.setText(""+nI);
    txtF.setText(""+nF);
    txtY.setText(""+nY);
    txtMi.setText(""+t);
    txtNM.setText(""+nNM);
}

else if(n.equals("")&& n1.equals("")&&n2.equals("")&&n3.equals("")&&
n4.equals("")) {
    t= Double.parseDouble(n5);
    nM = t /0.00054;
    nI = t * 72913.4;
    nF = t * 6076.1;
    nY = t * 2026.7;
    nMi = t * 1.15078;
    txtM.setText(""+nM);
    txtI.setText(""+nI);
    txtF.setText(""+nF);
    txtY.setText(""+nY);
    txtMi.setText(""+nMi);
    txtNM.setText(""+t);
}

```

```
    }  
});  
}
```

```
public void calculateWeight(View v){  
    txtKg = findViewById(R.id.editText15);  
    txtOn = findViewById(R.id.editText14);  
    txtPo = findViewById(R.id.editText13);  
    txtTp = findViewById(R.id.editText12);  
    txtSt = findViewById(R.id.editText11);  
    txtSTo = findViewById(R.id.editText10);  
    txtLT= findViewById(R.id.editText9);  
    button3 = findViewById(R.id.button3);  
    button4 = findViewById(R.id.button4);  
  
    //RESET BUTTON  
    button3.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            txtKg.setText("");  
            txtOn.setText("");  
            txtPo.setText("");  
            txtTp.setText("");  
            txtSt.setText("");  
            txtSTo.setText("");  
            txtLT.setText("");  
        }  
    });  
  
    //CALCULATE BUTTON
```

```

button4.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        double e,wK,wO,wP,wT,wS,wST,wLT;
        String x = txtKg.getText().toString();
        String x1 = txtOn.getText().toString();
        String x2 = txtPo.getText().toString();
        String x3 = txtTp.getText().toString();
        String x4 = txtSt.getText().toString();
        String x5 = txtSTo.getText().toString();
        String x6 = txtLT.getText().toString();

        if(x1.equals("")&&x2.equals("")&&x3.equals("")&&x4.equals("")
        &&x5.equals("")&&x6.equals("")) {
            e = Double.parseDouble(x);
            wO = e * 35.274;
            wP = e * 2.2046;
            wT = e * 2.67923;
            wS = e * 0.15747;
            wST = e* 0.0011023;
            wLT = e * 0.000984;
            txtKg.setText(""+e);
            txtOn.setText(""+wO);
            txtPo.setText(""+wP);
            txtTp.setText(""+wT);
            txtSt.setText(""+wS);
            txtSTo.setText(""+wST);
            txtLT.setText(""+wLT);
        }
    }
}

```



```
else if(x.equals("") && x2.equals("") && x3.equals("") &&
x4.equals("") && x5.equals("") && x6.equals("")) {
```

```
    e = Double.parseDouble(x1);
```

```
    wK = e / 35.274;
```

```
    wP = e * 0.062500;
```

```
    wT = e * 0.075955;
```

```
    wS = e * 0.0044643;
```

```
    wST = e * 0.000031250;
```

```
    wLT = e * 0.000027902;
```

```
    txtKg.setText(""+wK);
```

```
    txtOn.setText(""+e);
```

```
    txtPo.setText(""+wP);
```

```
    txtTp.setText(""+wT);
```

```
    txtSt.setText(""+wS);
```

```
    txtSTo.setText(""+wST);
```

```
    txtLT.setText(""+wLT);
```

```
}
```

```
else if(x.equals("") && x1.equals("") && x3.equals("") &&
x4.equals("") && x5.equals("") && x6.equals("")) {
```

```
    e = Double.parseDouble(x2);
```

```
    wK = e / 2.2046;
```

```
    wO = e * 16.0;
```

```
    wT = e * 1.2153;
```

```
    wS = e * 0.071429;
```

```
    wST = e * 0.0050000;
```

```
    wLT = e * 0.00044643;
```

```
    txtKg.setText(""+wK);
```

```
    txtOn.setText(""+wO);
```

```
    txtPo.setText(""+e);
```

```
    txtTp.setText(""+wT);
```

```

        txtSt.setText(""+wS);
        txtSTo.setText(""+wST);
        txtLT.setText(""+wLT);
    }

```

```

else if(x.equals("") && x1.equals("") && x2.equals("") &&
x4.equals("") && x5.equals("") && x6.equals("")) {

```

```

    e = Double.parseDouble(x3);
    wK = e / 2.6792;
    wO = e * 13.166;
    wP = e * 0.82286;
    wS = e * 0.058776;
    wST = e * 0.00041143;
    wLT = e * 0.00036735;
    txtKg.setText(""+wK);
    txtOn.setText(""+wO);
    txtPo.setText(""+wP);
    txtTp.setText(""+e);
    txtSt.setText(""+wS);
    txtSTo.setText(""+wST);
    txtLT.setText(""+wLT);
}

```

```

else if(x.equals("") && x1.equals("") && x2.equals("") &&
x3.equals("") && x5.equals("") && x6.equals("")) {

```

```

    e = Double.parseDouble(x4);
    wK = e / 0.15747;
    wO = e * 224.0;
    wP = e * 14.0;
    wT = e * 17.014;
    wST = e * 0.007;

```

```

wLT = e * 0.00625;
txtKg.setText(""+wK);
txtOn.setText(""+wO);
txtPo.setText(""+wP);
txtTp.setText(""+wT);
txtSt.setText(""+e);
txtSTo.setText(""+wST);
txtLT.setText(""+wLT);
}
else if(x.equals("") && x1.equals("") && x2.equals("") &&
x3.equals("") && x4.equals("") && x6.equals("")) {
    e = Double.parseDouble(x5);
    wK = e / 0.0011023;
    wO = e * 32000;
    wP = e * 2000.0;
    wT = e * 2430.6;
    wS = e * 142.86;
    wLT = e * 0.89286;
    txtKg.setText(""+wK);
    txtOn.setText(""+wO);
    txtPo.setText(""+wP);
    txtTp.setText(""+wT);
    txtSt.setText(""+wS);
    txtSTo.setText(""+e);
    txtLT.setText(""+wLT);
}
else if(x.equals("") && x1.equals("") && x2.equals("") &&
x3.equals("") && x4.equals("") && x5.equals("")) {
    e = Double.parseDouble(x6);
    wK = e / 0.00098421;

```

```

        wO = e * 35840;
        wP = e * 2240.0;
        wT = e * 2722.2;
        wS = e * 160.00;
        wST = e * 1.1200;
        txtKg.setText(""+wK);
        txtOn.setText(""+wO);
        txtPo.setText(""+wP);
        txtTp.setText(""+wT);
        txtSt.setText(""+wS);
        txtSTo.setText(""+wST);
        txtLT.setText(""+e);
    }
}
});
}

```

```

public void calculateVolume(View v){
    txtL = findViewById(R.id.editText19);
    txtFluid = findViewById(R.id.editText20);
    txtQua = findViewById(R.id.editText21);
    txtG = findViewById(R.id.editText22);
    txtImp = findViewById(R.id.editText23);
    button5 = findViewById(R.id.button5);
    button6 = findViewById(R.id.button6);

    //RESET BUTTON
    button5.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {

```

```

        txtL.setText("");
        txtFluid.setText("");
        txtQua.setText("");
        txtG.setText("");
        txtImp.setText("");
    }
});

```

```

button6.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        double m,vL,vFl,vQ,vG,vImp;
        String y = txtL.getText().toString();
        String y1 = txtFluid.getText().toString();
        String y2 = txtQua.getText().toString();
        String y3 = txtG.getText().toString();
        String y4 = txtImp.getText().toString();

        if(y1.equals("")&& y2.equals("")&&y3.equals("")&&y4.equals("")) {
            m = Double.parseDouble(y);
            vFl = m * 33.814;
            vQ= m * 1.0567;
            vG = m * 0.26417;
            vImp = m * 0.21997;
            txtL.setText(""+m);
            txtFluid.setText(""+vFl);
            txtQua.setText(""+vQ);
            txtG.setText(""+vG);
            txtImp.setText(""+vImp);
        }
    }
});

```

```

else if(y.equals("") && y2.equals("") && y3.equals("") && y4.equals("")) {
    m = Double.parseDouble(y1);
    vL = m / 33.814;
    vQ = m * 0.031250;
    vG = m * 0.0078125;
    vImp = m * 0.0065053;
    txtL.setText(""+vL);
    txtFluid.setText(""+m);
    txtQua.setText(""+vQ);
    txtG.setText(""+vG);
    txtImp.setText(""+vImp);
}

else if(y.equals("") && y1.equals("") && y3.equals("") && y4.equals("")) {
    m = Double.parseDouble(y2);
    vL = m / 1.0567;
    vFl = m * 32.000;
    vG = m * 0.25000;
    vImp = m * 0.20817;
    txtL.setText(""+vL);
    txtFluid.setText(""+vFl);
    txtQua.setText(""+m);
    txtG.setText(""+vG);
    txtImp.setText(""+vImp);
}

else if(y.equals("") && y1.equals("") && y2.equals("") && y4.equals("")) {
    m = Double.parseDouble(y3);
    vL = m / 0.26417;
    vFl = m * 128.00;
    vQ = m * 4.0000;
    vImp = m * 0.83267;

```

```

        txtL.setText(""+vL);
        txtFluid.setText(""+vFl);
        txtQua.setText(""+vQ);
        txtG.setText(""+m);
        txtImp.setText(""+vImp);
    }
else if(y.equals("") && y1.equals("") && y2.equals("") && y3.equals("")) {
    m = Double.parseDouble(y4);
    vL = m / 0.21997;
    vFl = m * 153.72;
    vQ = m * 4.8038;
    vG = m * 1.2009;
    txtL.setText(""+vL);
    txtFluid.setText(""+vFl);
    txtQua.setText(""+vQ);
    txtG.setText(""+vG);
    txtImp.setText(""+m);
}
}
});

}
}

```

Activity_Main.Xml And Layout Blueprint

```
<?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"
    tools:context=".MainActivity">
```

```
<TextView
    android:id="@+id/textViewD"
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:layout_marginTop="8dp"
    android:background="@android:color/holo_orange_light"
    android:includeFontPadding="false"
    android:text=" Distance Units"
    android:textSize="20sp"
    app:fontFamily="sans-serif-black" />
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Meters" />
```

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Inches" />
```

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
```



```
    android:gravity="center"
    android:text="Feet" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Yards" />
```

```
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Miles" />
```

```
<TextView
    android:id="@+id/textView5"
    android:layout_width="35dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Nautical Miles" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<EditText
    android:id="@+id/editText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
```

```
android:layout_marginLeft="2dp"
android:layout_marginRight="2dp"
android:layout_weight="1"
android:background="@android:color/background_light"
android:ems="10"
android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText8"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
</LinearLayout>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="80dp"  
    android:layout_marginBottom="10dp"  
    android:layout_weight="-2"  
    android:background="@android:color/holo_orange_light"  
    android:orientation="horizontal">
```

```
<Button  
    android:id="@+id/button1"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginLeft="100dp"  
    android:layout_weight="1"  
    android:gravity="center"  
    android:onClick="calculateDistance"  
    android:text="Reset" />
```

```
<Button  
    android:id="@+id/button2"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginRight="100dp"  
    android:layout_weight="1"  
    android:gravity="center"  
    android:onClick="calculateDistance"  
    android:text="Calculate" />
```

```
</LinearLayout>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:background="@android:color/holo_orange_light"  
    android:orientation="horizontal">
```

```
<TextView  
    android:id="@+id/textViewW"  
    android:layout_width="wrap_content"  
    android:layout_height="50dp"  
    android:layout_weight="1"  
    android:text=" Weight Units"  
    android:textSize="20sp"  
    app:fontFamily="sans-serif-black" />
```

```
</LinearLayout>
```

```
<LinearLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"
```

```
android:background="@android:color/holo_orange_light"
android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/textView6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Kilograms" />
```

```
<TextView
    android:id="@+id/textView7"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Ounces" />
```

```
<TextView
    android:id="@+id/textView8"
    android:layout_width="56dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Pounds" />
```

```
<TextView
    android:id="@+id/textView9"
    android:layout_width="66dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Troy Pounds" />
```

```
<TextView
    android:id="@+id/textView10"
    android:layout_width="53dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Stones" />
```

```
<TextView
    android:id="@+id/textView11"
    android:layout_width="56dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Short Tons" />
```

```
<TextView
    android:id="@+id/textView12"
    android:layout_width="55dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Long Tons" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<EditText
    android:id="@+id/editText15"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText14"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText13"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText12"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText10"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText9"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="80dp"
    android:layout_marginBottom="10dp"
    android:layout_weight="-2"
```

```
android:background="@android:color/holo_orange_light"
android:orientation="horizontal">
```

```
<Button
    android:id="@+id/button3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="100dp"
    android:layout_weight="1"
    android:gravity="center"
    android:onClick="calculateWeight"
    android:text="Reset" />
```

```
<Button
    android:id="@+id/button4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="100dp"
    android:layout_weight="1"
    android:gravity="center"
    android:onClick="calculateWeight"
    android:text="Calculate" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/textViewV"
    android:layout_width="wrap_content"
    android:layout_height="50dp"
    android:layout_weight="1"
    android:background="@android:color/holo_orange_light"
    android:text=" Volume Units"
    android:textSize="20sp"
    app:fontFamily="sans-serif-black" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<TextView
    android:id="@+id/textView13"
    android:layout_width="78dp"
    android:layout_height="wrap_content"
```

```
    android:layout_weight="1"
    android:gravity="center"
    android:text="Liters" />
```

```
<TextView
    android:id="@+id/textView14"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Fluid Ounces" />
```

```
<TextView
    android:id="@+id/textView15"
    android:layout_width="65dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Quarts" />
```

```
<TextView
    android:id="@+id/textView16"
    android:layout_width="87dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Gallons" />
```

```
<TextView
    android:id="@+id/textView17"
    android:layout_width="76dp"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:gravity="center"
    android:text="Imperial Gallons" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<EditText
    android:id="@+id/editText19"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
```



```
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText20"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText21"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText22"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
<EditText
    android:id="@+id/editText23"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="2dp"
    android:layout_marginRight="2dp"
    android:layout_weight="1"
    android:background="@android:color/background_light"
    android:ems="10"
    android:inputType="numberDecimal" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="80dp"
    android:layout_marginBottom="10dp"
    android:layout_weight="-2"
    android:background="@android:color/holo_orange_light"
    android:orientation="horizontal">
```

```
<Button
    android:id="@+id/button5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="100dp"
    android:layout_weight="1"
    android:gravity="center"
    android:onClick="calculateVolume"
    android:text="Reset" />
```

```
<Button
    android:id="@+id/button6"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginRight="100dp"
    android:layout_weight="1"
    android:gravity="center"
    android:onClick="calculateVolume"
    android:text="Calculate" />
```

```
</LinearLayout>
```

```
</LinearLayout>
```

Distance Units

Meters	Inches	Feet	Yards	Miles	Nautical Miles
--------	--------	------	-------	-------	----------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

RESET

CALCULATE

Weight Units

Kilograms	Ounces	Pounds	Troy Pounds	Stones	Short Tons	Long Tons
-----------	--------	--------	-------------	--------	------------	-----------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

RESET

CALCULATE

Volume Units

Liters	Fluid Ounces	Quarts	Gallons	Imperial Gallons
--------	--------------	--------	---------	------------------

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------

RESET

CALCULATE

At least 3 printed running application interface screenshot that describe input-process-output.







