

STIW2044: Mobile Programming

# Semester 182

Lab 1

Name : Norhalimah binti Mohamad Ramli

Matric No. : 255227

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,txtI,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);

txtI = 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);

}

}

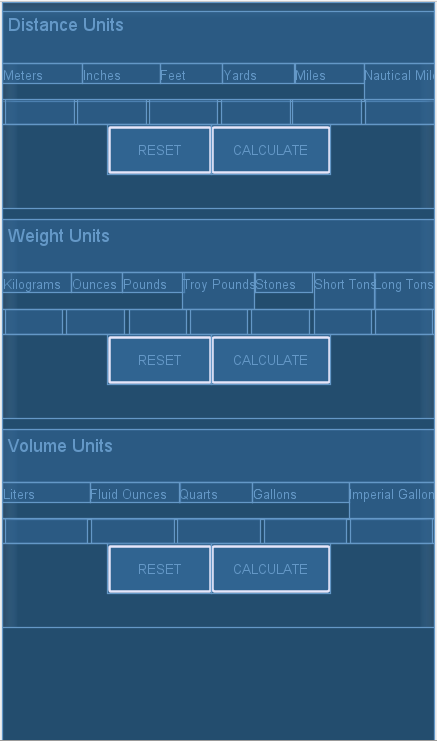
});

}

}

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"  
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 android:background="@android:color/holo\_orange\_light"  
 android:includeFontPadding="false"  
 android:text=" Distance Units"  
 android:textSize="20sp"  
 app:fontFamily="sans-serif-black" />  
  
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 android:layout\_height="wrap\_content"  
 android:background="@android:color/holo\_orange\_light"  
 android:orientation="horizontal">  
  
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 android:layout\_weight="1"  
 android:gravity="center"  
 android:text="Meters" />  
  
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 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"  
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 android:layout\_weight="1"  
 android:gravity="center"  
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 <TextView  
 android:id="@+id/textView3"  
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 android:gravity="center"  
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 <TextView  
 android:id="@+id/textView4"  
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 android:gravity="center"  
 android:text="Miles" />  
  
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 android:gravity="center"  
 android:text="Nautical Miles" />  
  
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 android:orientation="horizontal">  
  
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 android:layout\_height="wrap\_content"  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
 <EditText  
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 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"  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
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 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>  
  
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 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="@android:color/holo\_orange\_light"  
 android:orientation="horizontal">  
  
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 android:id="@+id/textViewW"  
 android:layout\_width="wrap\_content"  
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 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">  
  
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 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"  
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 android:layout\_weight="1"  
 android:gravity="center"  
 android:text="Troy Pounds" />  
  
 <TextView  
 android:id="@+id/textView10"  
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 android:layout\_weight="1"  
 android:gravity="center"  
 android:text="Stones" />  
  
 <TextView  
 android:id="@+id/textView11"  
 android:layout\_width="56dp"  
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 android:layout\_weight="1"  
 android:gravity="center"  
 android:text="Short Tons" />  
  
 <TextView  
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 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 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" />  
  
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 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" />  
  
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 android:layout\_marginLeft="2dp"  
 android:layout\_marginRight="2dp"  
 android:layout\_weight="1"  
 android:background="@android:color/background\_light"  
 android:ems="10"  
 android:inputType="numberDecimal" />  
  
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 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>



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

