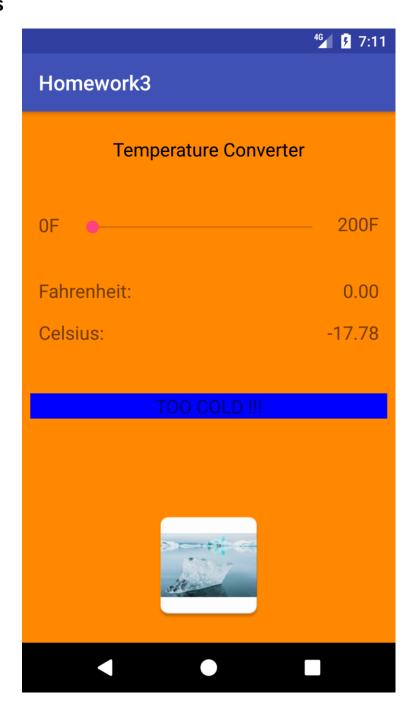
Jarron Bailey

9/25/2017

ITMD 455

Homework 3

Screenshots





Homework3

Temperature Converter

0F _____ 200F

Fahrenheit: 68.00

Celsius: 20.00

JUST RIGHT!





Homework3

Temperature Converter

0F ______ 200F

Fahrenheit: 200.00

Celsius: 93.33

TOO HOT !!!



XML

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout</pre>
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:background="@android:color/holo orange dark"
    tools:context="com.example.bailey.homework3.MainActivity">
    <TextView
        android:id="@+id/tvCelDeg"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_marginRight="16dp"
        android:layout_marginTop="16dp"
        android: text="0.00"
        android: textSize="18sp"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toBottomOf="@+id/tvFarDeg" />
    <TextView
        android:id="@+id/tvCel"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginLeft="16dp"
        android:layout marginTop="16dp"
        android:text="Celsius:"
        android:textSize="18sp"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintTop toBottomOf="@+id/tvFartext" />
    <TextView
        android:id="@+id/tvNameofApp"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginLeft="8dp"
        android:layout marginRight="8dp"
        android:layout marginTop="24dp"
        android:text="@string/activity name"
        android:textAlignment="center"
        android:textColor="@android:color/black"
        android:textSize="18sp"
        app:layout constraintHorizontal bias="0.0"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <SeekBar
        android:id="@+id/sb"
        android:layout width="0dp"
        android:layout height="wrap content"
        android:layout marginBottom="8dp"
        android:layout_marginLeft="16dp"
        android:layout marginRight="8dp"
        app:layout constraintBottom toTopOf="@+id/quideline"
        app:layout constraintLeft toRightOf="@+id/tvMinFar"
        app:layout constraintRight toLeftOf="@+id/tvMaxFar" />
```

```
<TextView
   android:id="@+id/tvMinFar"
   android:layout width="0dp"
   android:layout_height="wrap_content"
   android:layout marginBottom="7dp"
   android:layout marginLeft="16dp"
    android: text="0F"
    android: textSize="18sp"
    app:layout constraintBottom toTopOf="@+id/guideline"
   app:layout constraintLeft toLeftOf="parent" />
<TextView
   android:id="@+id/tvMaxFar"
   android:layout width="wrap content"
   android:layout height="wrap content"
    android:layout marginBottom="8dp"
   android:layout_marginRight="16dp"
   android:text="200F"
   android: textSize="18sp"
   app:layout_constraintBottom_toTopOf="@+id/guideline"
   app:layout constraintRight toRightOf="parent" />
<android.support.constraint.Guideline</pre>
    android:layout width="wrap content"
   android:layout height="wrap content"
   android:id="@+id/guideline"
   android:orientation="horizontal"
   app:layout_constraintGuide percent="0.25048923" />
<TextView
   android:id="@+id/tvFartext"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout_marginLeft="16dp"
   android:layout_marginTop="32dp"
    android:text="Fahrenheit:"
    android:textSize="18sp"
    app:layout constraintLeft toLeftOf="parent"
   app:layout constraintTop toTopOf="@+id/guideline"
    app:srcCompat="@drawable/warmclimate"
<TextView
   android:id="@+id/tvFarDeg"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout_marginRight="16dp"
   android:layout_marginTop="32dp"
   android:text="0.00"
   android:textSize="18sp"
   app:layout constraintRight toRightOf="parent"
   app:layout constraintTop toTopOf="@+id/guideline" />
<ImageView</pre>
    android:id="@+id/imgPlace"
   android:layout width="0dp"
   android:layout height="0dp"
   android:layout marginBottom="16dp"
   android:layout marginLeft="8dp"
   android:layout marginRight="8dp"
   android:layout marginTop="8dp"
```

```
app:layout constraintBottom toBottomOf="parent"
        app:layout constraintHorizontal bias="0.0"
       app:layout constraintLeft toLeftOf="parent"
       app:layout constraintRight toRightOf="parent"
       app:layout constraintTop toTopOf="@+id/guideline2"
       app:layout_constraintVertical bias="1.0"
       app:srcCompat="@mipmap/ic launcher" />
    <android.support.constraint.Guideline</pre>
        android:layout width="wrap content"
       android:layout height="wrap content"
       android:id="@+id/guideline2"
       app:layout constraintGuide begin="371dp"
       android:orientation="horizontal" />
    <TextView
       android:id="@+id/textView9"
       android:layout width="0dp"
       android:layout height="wrap content"
       android:layout marginBottom="75dp"
       android:layout_marginLeft="8dp"
       android:layout marginRight="8dp"
       android:text="How Does it Feel?"
        android:textAlignment="center"
       android:textSize="18sp"
       app:layout constraintBottom toTopOf="@+id/guideline2"
        app:layout constraintLeft toLeftOf="parent"
       app:layout_constraintRight_toRightOf="parent" />
</android.support.constraint.ConstraintLayout>
```

Java

```
package com.example.bailey.homework3;
import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ImageView;
import android.widget.SeekBar;
import android.widget.TextView;
import static com.example.bailey.homework3.R.id.sb;
public class MainActivity extends AppCompatActivity {
    TextView celdeg, fardeg, celtext, fartext, minfar, maxfar, tvfeel;
    ImageView Pic;
   SeekBar myseekbar;
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        seekbarAction();
   public void seekbarAction() {
        celdeg = (TextView) findViewById(R.id.tvCelDeg);
        fardeg = (TextView) findViewById(R.id.tvFarDeg);
        celtext = (TextView) findViewById(R.id.tvCel);
```

```
fartext = (TextView) findViewById(R.id.tvFartext);
       minfar = (TextView) findViewById(R.id.tvMinFar);
       maxfar = (TextView) findViewById(R.id.tvMaxFar);
       tvfeel = (TextView) findViewById(R.id.textView9);
       myseekbar=(SeekBar) findViewById(sb);
       Pic = (ImageView) findViewById(R.id.imgPlace);
       myseekbar.setMax(200);
       myseekbar.setProgress(0);
       myseekbar.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
            public void onProgressChanged(SeekBar seekBar, int progress, boolean
fromUser) {
                double xprogress = (double) progress/1.00;
               // C = (5/9) * (F-32)
               double valcelsius = ((xprogress-32.00) * (5/9.0));
               String txtcel = String.format("%.2f", valcelsius);
                String txtfar = String.format("%.2f", xprogress);
                celdeg.setText(txtcel);
                fardeg.setText(txtfar);
               if (xprogress <= 40.00) {
                    tvfeel.setText("TOO COLD !!!");
                    tvfeel.setBackgroundColor(Color.BLUE);
                   Pic.setImageResource(R.drawable.ic cold);
                if ((xprogress > 40.00) && (xprogress < 90.00)) {</pre>
                    tvfeel.setText("JUST RIGHT !");
                    tvfeel.setBackgroundColor(Color. GREEN);
                   Pic.setImageResource(R.drawable.ic warm);
                if (xprogress >= 90.00) {
                    tvfeel.setText("TOO HOT !!!");
                    tvfeel.setBackgroundColor(Color.RED);
                    Pic.setImageResource(R.drawable.ic_hot);
            @Override
            public void onStartTrackingTouch(SeekBar seekBar) {
            @Override
            public void onStopTrackingTouch(SeekBar seekBar) {
       });
   }
```