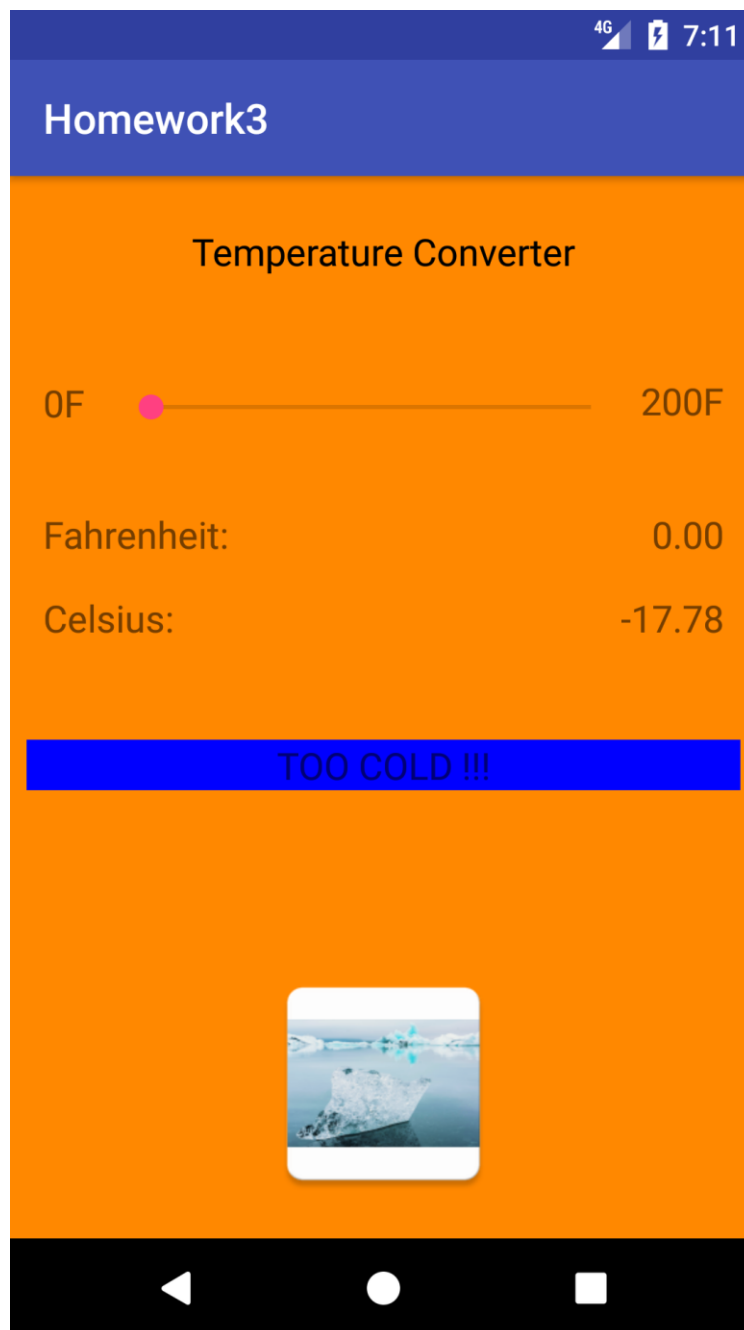Jarron Bailey

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
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    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/guideline"
        app:layout_constraintLeft_toRightOf="@+id/tvMinFar"
        app:layout_constraintRight_toLeftOf="@+id/tvMaxFar" />
```

```xml
<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
    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

    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"
```

```xml
        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
        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

```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);
```

```java
        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() {
            @Override
            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)) {
                    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) {

            }
        });
    }
}
```