ITMD455
Homework 3

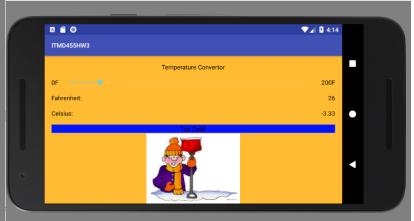
Dennis Chase

Screenshots:

Android Emulator - Nexus_5X_API_26:5554



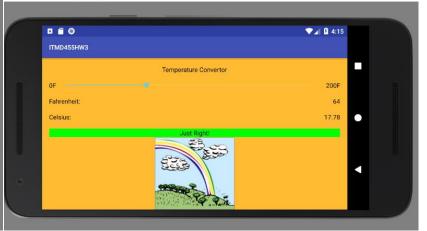
Android Emulator - Nexus_5X_API_26:5554

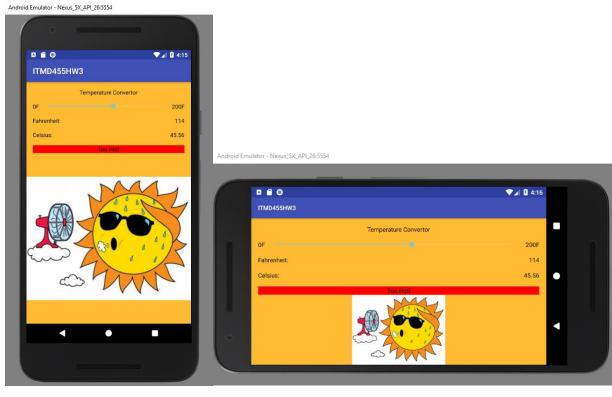


Android Emulator - Nexus_5X_API_26:5554



Android Emulator - Nexus_5X_API_26:5554





XML Code:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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 light"
   android: theme="@style/Theme.AppCompat.NoActionBar"
   tools:context="com.example.densi.itmd455hw3.MainActivity">
    <TextView
        android:id="@+id/textView2"
        android:layout width="wrap content"
        android:layout height="wrap content"
       android:layout alignParentTop="true"
       android:layout marginTop="16dp"
       android:layout marginBottom="16dp"
       android:layout centerHorizontal="true"
       android:textColor="#000000"
        android:text="Temperature Convertor" />
    <SeekBar
       android:id="@+id/seekBar"
       android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout below="@+id/textView2"
        android:layout_toEndOf="@id/textView3"
        android:layout toStartOf="@id/textView4"
        android:layout marginLeft="8dp"
       android:layout marginRight="8dp"
       android:layout centerHorizontal="true" />
    <TextView
        android:id="@+id/textView3"
        android:layout width="wrap content"
       android:layout height="wrap content"
       android:layout alignParentStart="true"
       android:layout below="@+id/textView2"
       android:layout marginLeft="16dp"
        android:textColor="#000000"
        android:text="0F" />
    <TextView
       android:id="@+id/textView4"
       android:layout width="wrap content"
       android:layout_height="wrap_content"
       android:layout alignParentEnd="true"
       android:layout_below="@+id/textView2"
        android:layout marginRight="16dp"
        android:textColor="#000000"
       android:text="200F" />
    <TextView
       android:id="@+id/textView5"
        android:layout width="wrap content"
        android:layout_height="wrap_content"
        android:layout alignStart="@+id/textView3"
        android:layout below="@+id/textView3"
        android:layout marginTop="16dp"
       android:textColor="#000000"
```

```
android:text="Fahrenheit:" />
<TextView
   android:id="@+id/textView6"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout_alignStart="@+id/textView5"
   android:layout_below="@+id/textView5"
   android:layout marginTop="16dp"
   android:textColor="#000000"
   android:text="Celsius:" />
<TextView
   android:id="@+id/fahTemp"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout_alignEnd="@+id/textView4"
   android:layout_alignTop="@+id/textView5"
   android:textColor="#000000"
   android:text="" />
<TextView
   android:id="@+id/celTemp"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout alignEnd="@+id/fahTemp"
   android:layout alignTop="@+id/textView6"
   android: textColor="#000000"
   android:text="" />
<TextView
   android:id="@+id/tooCold"
   android:layout_width="match_parent"
   android:layout height="wrap content"
   android:layout_below="@+id/textView6"
   android:layout margin="16dp"
   android:gravity="center"
   android:textColor="#000000"
   android:background="#0011ff"
   android:visibility="invisible"
   android:text="Too Cold!" />
<TextView
   android:id="@+id/tooHot"
   android:layout width="match parent"
   android:layout height="wrap content"
   android:layout below="@+id/textView6"
   android:layout margin="16dp"
   android:gravity="center"
   android:textColor="#000000"
   android:background="#ff0000"
   android:visibility="invisible"
   android:text="Too Hot!" />
<TextView
   android:id="@+id/justRight"
   android:layout width="match parent"
   android:layout height="wrap content"
   android:layout below="@+id/textView6"
   android:layout margin="16dp"
   android:gravity="center"
   android:textColor="#000000"
   android:background="#04ff00"
```

```
android:visibility="invisible"
        android:text="Just Right!" />
    <ImageView</pre>
        android:id="@+id/imageCold"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_alignTop="@+id/tooCold"
        android:layout centerHorizontal="true"
        android:layout marginTop="20dp"
        android:visibility="invisible"
        android:src="@drawable/cold3" />
    <ImageView</pre>
        android:id="@+id/imageHot"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout_alignTop="@+id/tooCold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:visibility="invisible"
        android:src="@drawable/hot" />
    <ImageView</pre>
        android:id="@+id/imageRight"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout alignTop="@+id/tooCold"
        android:layout centerHorizontal="true"
        android:layout marginTop="20dp"
        android:visibility="invisible"
        android:src="@drawable/justright" />
</RelativeLayout>
Java Code:
package com.example.densi.itmd455hw3;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.SeekBar;
import org.w3c.dom.Text;
import java.text.DecimalFormat;
public class MainActivity extends AppCompatActivity {
    TextView celsius, fahrenheit, tcold, tright, thot;
    ImageView icold, iright, ihot;
    SeekBar seek;
    double fah, cel;
    DecimalFormat df = new DecimalFormat("#.##");
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    celsius = (TextView) findViewById(R.id.celTemp);
    fahrenheit = (TextView) findViewById(R.id.fahTemp);
    tcold = (TextView) findViewById(R.id.tooCold);
    tright = (TextView) findViewById(R.id.justRight);
    thot = (TextView) findViewById(R.id.tooHot);
    icold = (ImageView) findViewById(R.id.imageCold);
    iright = (ImageView) findViewById(R.id.imageRight);
    ihot = (ImageView) findViewById(R.id.imageHot);
    seek = (SeekBar) findViewById(R.id.seekBar);
    seek.setMax(200);
    seek.setProgress(100);
    seek.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {
        @Override
        public void onProgressChanged(SeekBar seekBar, int i, boolean b) {
            fah = i;
            cel = (5.0/9.0)*(fah-32);
            celsius.setText(df.format(cel));
            fahrenheit.setText(df.format(fah));
            if(fah<=40)
                tcold.setVisibility(View.VISIBLE);
                tright.setVisibility(View.INVISIBLE);
                thot.setVisibility(View.INVISIBLE);
                icold.setVisibility(View.VISIBLE);
                iright.setVisibility(View.INVISIBLE);
                ihot.setVisibility(View.INVISIBLE);
            else if((fah>40) \&\& (fah<90))
                tcold.setVisibility(View.INVISIBLE);
                tright.setVisibility(View.VISIBLE);
                thot.setVisibility(View.INVISIBLE);
                icold.setVisibility(View.INVISIBLE);
                iright.setVisibility(View.VISIBLE);
                ihot.setVisibility(View.INVISIBLE);
            }
            else
                tcold.setVisibility(View.INVISIBLE);
                tright.setVisibility(View.INVISIBLE);
                thot.setVisibility(View.VISIBLE);
                icold.setVisibility(View.INVISIBLE);
                iright.setVisibility(View.INVISIBLE);
                ihot.setVisibility(View.VISIBLE);
            }
        }
        @Override
        public void onStartTrackingTouch(SeekBar seekBar) {
        @Override
        public void onStopTrackingTouch(SeekBar seekBar) {
```

```
});
}
```