**Progress Bar**

**MainActivity.java**

package com.example.progressbar;  
  
import android.support.v7.app.AppCompatActivity;  
import android.os.Bundle;  
import android.os.Handler;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ProgressBar;  
import android.widget.TextView;  
  
  
public class MainActivity extends AppCompatActivity {  
 private ProgressBar pgsBar;  
 private int i = 0;  
 private TextView txtView;  
 private Handler hdlr = new Handler();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 pgsBar = (ProgressBar) findViewById(R.id.*pBar*);  
 txtView = (TextView) findViewById(R.id.*tView*);  
 Button btn = (Button)findViewById(R.id.*btnShow*);  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 i = pgsBar.getProgress();  
 new Thread(new Runnable() {  
 public void run() {  
 while (i < 100) {  
 i += 1;  
 // Update the progress bar and display the current value in text view  
 hdlr.post(new Runnable() {  
 public void run() {  
 pgsBar.setProgress(i);  
 txtView.setText(i+"/"+pgsBar.getMax());  
 }  
 });  
 try {  
 // Sleep for 100 milliseconds to show the progress slowly.  
 Thread.*sleep*(100);  
 } catch (InterruptedException e) {  
 e.printStackTrace();  
 }  
 }  
 }  
 }).start();  
 }  
 });  
 }  
}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent" android:layout\_height="match\_parent">  
 <ProgressBar  
 android:id="@+id/pBar"  
 style="?android:attr/progressBarStyleHorizontal"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="100dp"  
 android:layout\_marginTop="200dp"  
 android:minHeight="50dp"  
 android:minWidth="200dp"  
 android:max="100"  
 android:indeterminate="false"  
 android:progress="0" />  
 <TextView  
 android:id="@+id/tView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/pBar"  
 android:layout\_below="@+id/pBar" />  
 <Button  
 android:id="@+id/btnShow"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="130dp"  
 android:layout\_marginTop="20dp"  
 android:text="Start Progress"  
 android:layout\_below="@+id/tView"/>  
</RelativeLayout>