*<?***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"**

**tools:context=".MainActivity"**>

<**ImageView**

**android:id="@+id/imageView"**

**android:layout\_width="400dp"**

**android:layout\_height="340dp"**

**android:layout\_alignParentBottom="true"**

**android:layout\_alignParentStart="true"**

**android:layout\_marginBottom="76dp"**

**android:scaleType="centerInside"**>

</**ImageView**>

<**ProgressBar**

**android:id="@+id/progressBar"**

**style="@android:style/Widget.ProgressBar.Horizontal"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_alignParentBottom="true"**

**android:layout\_alignParentStart="true"**

**android:layout\_marginBottom="48dp"**

**android:maxHeight="10dp"**

**android:minHeight="10dp"**

**android:visibility="invisible"**>

</**ProgressBar**>

<**Button**

**android:id="@+id/loadButton"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_alignParentStart="true"**

**android:layout\_alignParentTop="true"**

**android:layout\_marginStart="99dp"**

**android:layout\_marginTop="64dp"**

**android:text="Load Icon"**

**android:textSize="24sp"**>

</**Button**>

</**RelativeLayout**>

**package** com.example.archana.a26\_1\_asynctask\_image;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.app.Activity;

**import** android.graphics.Bitmap;

**import** android.graphics.BitmapFactory;

**import** android.os.AsyncTask;

**import** android.os.Bundle;

**import** android.util.Log;

**import** android.view.View;

**import** android.view.View.OnClickListener;

**import** android.widget.Button;

**import** android.widget.ImageView;

**import** android.widget.ProgressBar;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity

**implements** View.OnClickListener{

**private** ImageView **mImageView**;

**private** ProgressBar **mProgressBar**;

*/\**

*Progress bar*

*https://developer.android.com/reference/android/widget/ProgressBar*

*\*/*

@Override

**public void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**mImageView** = findViewById(R.id.***imageView***);;

**mProgressBar** = findViewById(R.id.***progressBar***);

**final** Button button =

findViewById(R.id.***loadButton***);

button.setOnClickListener(**this**);

}

@Override

**public void** onClick(View view) {

LoadIconTask load = **new** LoadIconTask();

load.execute(R.drawable.***img***);

}

**class** LoadIconTask **extends** AsyncTask

<Integer, Integer, Bitmap> {

@Override

**protected void** onPreExecute() {

**mProgressBar**.setVisibility

(ProgressBar.***VISIBLE***);

**mImageView**.setImageDrawable(**null**);

}

@Override

**protected** Bitmap doInBackground(Integer... resId) {

Bitmap tmp = BitmapFactory.

*decodeResource*(getResources(),

resId[0]);

*// simulating long-running operation*

**for** (**int** i = 1; i < 11; i++) {

**try** {

Thread.*sleep*(500);

} **catch** (InterruptedException e) {

Log.*e*(**"ThreadingAsyncTask"**, e.toString());

}

publishProgress(i\*10 );

}

**return** tmp;

}

@Override

**protected void** onProgressUpdate(Integer... values) {

**mProgressBar**.setProgress(values[0]);

}

@Override

**protected void** onPostExecute(Bitmap result) {

**mProgressBar**.setVisibility

(ProgressBar.***INVISIBLE***);

**mImageView**.setImageBitmap(result);

}

}

}