**MainActivity.java**

**package** com.example.myapplicationasynctask;  
  
  
**import** android.os.AsyncTask;  
**import** android.support.v4.text.PrecomputedTextCompat;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.text.PrecomputedText;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ProgressBar;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 Button **btnClick**; ProgressBar **progressBar**; TextView **tvMessage**;  
 MyAsyncTask **myAsyncTask**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **progressBar** = (ProgressBar)findViewById(R.id.***progressBar***);  
 **btnClick** = (Button)findViewById(R.id.***btnClick***);  
 **tvMessage** = (TextView)findViewById(R.id.***tvMessage***);  
 **btnClick**.setOnClickListener(**new** View.OnClickListener(){  
 **public void** onClick(View v)  
 {  
 **myAsyncTask** = **new** MyAsyncTask();  
 **myAsyncTask**.execute(10);  
  
 }  
 });  
 }  
 **public class** MyAsyncTask **extends** AsyncTask<Integer, Integer, String>  
 {  
  
 **protected void** onPreExecute()  
 {  
 **tvMessage**.setText(**"Loading......."**);  
 }  
 **protected** String doInBackground(Integer... inputparam)  
 {  
 **try**{  
 **int** totalnumber = inputparam[0];  
 **for**(**int** i= 0; i<totalnumber; i++)  
 {  
 *//int progressValue = (i\*100)/totalnumber;* publishProgress((**int**)(i\*100)/totalnumber);  
 *//publishProgress(progressValue);* Thread.*sleep*(200);  
  
 }  
  
 } **catch** (Exception e) {}  
 **return "Loading Complete"**;  
 }  
 **protected void** onProgressUpdate(Integer... values)  
 {  
 **progressBar**.setProgress(values[0]);  
 **tvMessage**.setText(**"Loading "**+values[0]+**"%"**);  
 }  
 **protected void** onPostExecute(String result)  
 {  
 **progressBar**.setProgress(100);  
 **tvMessage**.setText(**"Loading Completed"**);  
 }  
 }  
}

**activity\_main.xml**

*<?***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"**>  
  
 <**TextView  
 android:id="@+id/tvMessage"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="200dp"  
 android:layout\_marginBottom="439dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**ProgressBar  
 android:id="@+id/progressBar"  
 style="?android:attr/progressBarStyleHorizontal"  
 android:layout\_width="123dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="166dp"  
 android:layout\_marginBottom="504dp"  
 tools:layout\_editor\_absoluteX="135dp"  
 tools:layout\_editor\_absoluteY="143dp"** />  
  
 <**Button  
 android:id="@+id/btnClick"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="200dp"  
 android:layout\_marginBottom="541dp"  
 android:text="Button"** />  
  
</**RelativeLayout**>

