3.Create an application that displays the progress of an operation

activity\_main.xml

<RelativeLayout xmlns:android="https://schemas.android.com/apk/res/android"

xmlns:tools="https://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity" >

<ProgressBar

android:id="@+id/progressBar"

style="?android:attr/progressBarStyleHorizontal"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignParentLeft="true"

android:layout\_alignParentTop="true"

android:layout\_marginLeft="23dp"

android:layout\_marginTop="20dp"

android:indeterminate="false"

android:max="100"

android:minHeight="50dp"

android:minWidth="200dp"

android:progress="1" />

<ProgressBar

android:id="@+id/progressBar\_cyclic"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:minHeight="50dp"

android:minWidth="50dp"

android:layout\_centerVertical="true"

android:layout\_centerHorizontal="true" />

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_alignLeft="@+id/progressBar"

android:layout\_below="@+id/progressBar"/>

</RelativeLayout>

package com.journaldev.progressbar;

import android.os.Handler;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.ProgressBar;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

private ProgressBar progressBar;

private int progressStatus = 0;

private TextView textView;

private Handler handler = new Handler();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

progressBar = (ProgressBar) findViewById(R.id.progressBar);

textView = (TextView) findViewById(R.id.textView);

// Start long running operation in a background thread

new Thread(new Runnable() {

public void run() {

while (progressStatus < 100) {

progressStatus += 1;

// Update the progress bar and display the

//current value in the text view

handler.post(new Runnable() {

public void run() {

progressBar.setProgress(progressStatus);

textView.setText(progressStatus+"/"+progressBar.getMax());

}

});

try {

// Sleep for 200 milliseconds.

Thread.sleep(200);

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}

}).start();

}

}