2.14 Text To Speech

activityMain.java

|  |
| --- |
| package com.example.texttospeech;  import android.os.Bundle;  import com.google.android.material.floatingactionbutton.FloatingActionButton; import com.google.android.material.snackbar.Snackbar;  import androidx.appcompat.app.AppCompatActivity; import androidx.appcompat.widget.Toolbar;  import android.speech.tts.TextToSpeech; import android.view.View; import android.view.Menu; import android.view.MenuItem; import android.widget.Button; import android.widget.EditText; import android.widget.Toast;  import java.util.Locale;  public class MainActivity extends AppCompatActivity {   TextToSpeech t1;  EditText ed1;  Button b1;   @Override  protected void onCreate(Bundle savedInstanceState) {  super.onCreate(savedInstanceState);  setContentView(R.layout.*activity\_main*);  Toolbar toolbar = findViewById(R.id.*imageView*);   ed1=(EditText) findViewById(R.id.*editText*);  b1=(Button) findViewById(R.id.*button*);   t1=new TextToSpeech(getApplicationContext(), new TextToSpeech.OnInitListener() {  @Override  public void onInit(int status) {  if(status !=TextToSpeech.*ERROR*){  t1.setLanguage(Locale.*UK*);  }  }  });   b1.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) {  String toSpeak = ed1.getText().toString();  Toast.*makeText*(getApplicationContext(),toSpeak, Toast.*LENGTH\_SHORT*).show();  t1.speak(toSpeak, TextToSpeech.*QUEUE\_FLUSH*, null);  }  });   }   public void onPause(){  if (t1 !=null){  t1.stop();  t1.shutdown();  }  super.onPause();  } } |

mainActivity.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"  android:paddingLeft="@dimen/activity\_horizontal\_margin"  android:paddingRight="@dimen/activity\_horizontal\_margin"  android:paddingTop="@dimen/activity\_vertical\_margin"  android:paddingBottom="@dimen/activity\_vertical\_margin"  tools:context=".MainActivity"  android:transitionGroup="true">   <TextView  android:text="Text To Speech"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/textview"  android:textSize="35dp"  android:layout\_alignParentTop="true"  android:layout\_centerHorizontal="true"/>   <EditText  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:id="@+id/editText"  android:layout\_below="@+id/imageView"  android:layout\_marginTop="46dp"  android:hint="Enter Text"  android:layout\_alignParentRight="true"  android:layout\_alignParentEnd="true"  android:layout\_alignParentLeft="true"  android:layout\_alignParentStart="true"  android:textColor="#ff7aff10"  android:textColorHint="#ffff23d1"/>   <Button  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:text="Text To Speech"  android:id="@+id/button"  android:layout\_below="@+id/editText"  android:layout\_centerHorizontal="true"  android:layout\_marginTop="46dp"/>    </RelativeLayout> |

