***LAB 7***

*<?*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:layout\_width="398dp"  
 android:layout\_height="64dp"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginStart="22dp"  
 android:layout\_marginTop="69dp"  
 android:layout\_marginEnd="-9dp"  
 android:text="Text To Speech Application"  
 android:textAlignment="center"  
 android:textColor="@color/black"  
 android:textSize="30sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="367dp"  
 android:layout\_height="75dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="239dp"  
 android:ems="10"  
 android:hint="Type in the text here"  
 android:inputType="textPersonName"  
 android:textSize="20sp" />  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="341dp"  
 android:layout\_height="57dp"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="439dp"  
 android:layout\_marginEnd="36dp"  
 android:text="Convert Text to Speech"  
 android:textSize="20sp" />  
  
  
</RelativeLayout>

package com.example.l7;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.speech.tts.TextToSpeech;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
import java.util.Locale;  
  
public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
 EditText edt;  
 Button button; *//Creates Objects of type text and button* TextToSpeech tts; *//Create an object of TextToSpeech Class* @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 button=(Button) findViewById(R.id.*btn*);*//Bind them here* button.setOnClickListener(this); *//This prompts you to implement the method* edt = (EditText) findViewById(R.id.*editText*);  
  
 tts = new TextToSpeech(getApplicationContext(), new TextToSpeech.OnInitListener() {  
 @Override  
 public void onInit(int i) {  
 *//check the status, ie I* if(i!=tts.*ERROR*){  
 tts.setLanguage(Locale.*ENGLISH*);*//Sets the Language to English, explain what "Locale" is* }  
 }  
 });  
  
 }  
  
 @Override  
 public void onClick(View view) {  
 *//now call the Speak Method* tts.speak(edt.getText().toString(), tts.*QUEUE\_FLUSH*,null);  
  
 }  
}