

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.17;
```

```
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(edit.getText().toString(),  
tts.QUEUE_FLUSH, null);  
  
}  
}
```