

Lab Program: 7 Convert Text to Speech

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XML Code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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">

    <EditText
        android:id="@+id/input"
        android:layout_width="364dp"
        android:layout_height="43dp"
        android:ems="10"
        android:hint="@string/enter_text"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.489"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.116"
        android:autofillHints="" />
```

```

<Button
    android:id="@+id/button"
    android:layout_width="112dp"
    android:layout_height="47dp"
    android:text="@string/convert"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    android:onClick="convert"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.423" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Java Code:

```

package com.example.speech;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.speech.tts.TextToSpeech;
import android.view.View;
import android.widget.EditText;

import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    TextToSpeech tts;
    EditText text;
}

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    text=findViewById(R.id.input);
    tts= new TextToSpeech(getApplicationContext(),
new
        TextToSpeech.OnInitListener() {
            @Override
            public void onInit(int status) {
                if(status!=TextToSpeech.ERROR)
                {
                    tts.setLanguage(Locale.UK);
                }
            }
        });
}

public void convert(View view){
    String tospeak = text.getText().toString();

    tts.speak(tospeak,TextToSpeech.QUEUE_FLUSH,null);
}
}

```

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import androidx.appcompat.app.AppCompatActivity;

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    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
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        text=findViewById(R.id.input);
        tts= new TextToSpeech(getApplicationContext(),
new
        TextToSpeech.OnInitListener() {
            @Override
            public void onInit(int status) {
                if(status!=TextToSpeech.ERROR)
                {
```

```
                tts.setLanguage(Locale.UK);  
            }  
        }  
    });  
}  
  
public void convert(View view){  
    String tospeak = text.getText().toString();  
    tts.speak(tospeak, TextToSpeech.QUEUE_FLUSH, null);  
}  
}
```

Speech

mad lab is the best

SPEAK