PART - A LAB - 07 TEXT TO SPEECH APP

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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:id="@+id/txtView"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Text to Speech Application"
    android:textAllCaps="true"
    android:textColor="@color/black"
    android:textSize="25sp"
    android:textStyle="bold"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintHorizontal bias="0.5"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintVertical bias="0.105" />
 <EditText
    android:id="@+id/edtTxt"
    android:layout_width="wrap_content"
    android:layout height="wrap content"
    android:layout_marginTop="140dp"
    android:textAlignment="center"
    android:ems="10"
    android:inputType="textPersonName"
    android:hint="@string/enter the text"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintHorizontal bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/txtView" />
 <Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout marginTop="140dp"
```

android:textSize="20sp"

```
android:lineHeight="28sp"
    android:textStyle="bold"
    android:text="Convert text to speech"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/edtTxt" />
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.java
package com.example.texttospeechapp;
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 btn;
 TextToSpeech textToSpeech;
 @Override
 protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   btn = (Button) findViewById(R.id.button);
   btn.setOnClickListener(this);
   edt = (EditText) findViewById(R.id.edtTxt);
   textToSpeech = new TextToSpeech(getApplicationContext(), new TextToSpeech.OnInitListener() {
    @Override
    public void onInit(int i) {
      if(i!=textToSpeech.ERROR) {
        textToSpeech.setLanguage(Locale.ENGLISH);
      }
    }
  });
 @Override
```

public void onClick(View view) {

```
textToSpeech.speak(edt.getText().toString(), textToSpeech.QUEUE_FLUSH, null);
}
```