

## ICP-11

**Name:** Tej Deep Parvatha Reddy

**Email:** [tpgkd@umsystem.edu](mailto:tpgkd@umsystem.edu)

**GitHub Link:**

<https://github.com/TejdeepP/WebProgrammingSpring2022/tree/main/MobilePart/ICP11>

**Partner Name:** Yaswanth Paruchuri

**Email:** [ypfm7@umsystem.edu](mailto:ypfm7@umsystem.edu)

**GitHub Link:**

<https://github.com/Yaswanthypfm7/WebDevCourse/tree/main/MobilePart/ICP11>

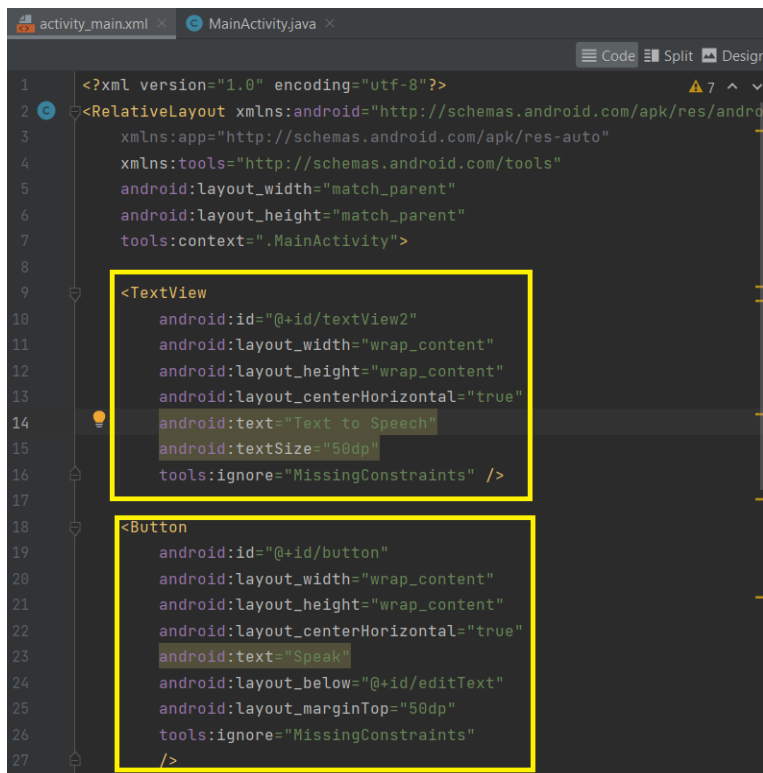
### Introduction

Text to Speech in general helps people who are blind and can listen to the speech which the device spells out. With this android app developed most of the users having this app that are blind can be easily able to hear things, get more idea and able to visualize by their own.

### Tasks

In this ICP, we have developed an Android App that can convert the text to Speech when we click on a speak button.

The layout is designed in “activity\_main.xml” with Relative layout with tags as “Text view”, “Button” and “Edit view”. Each of them is having a unique id defined and can be used in others. All these are aligned to center with the “android:layout\_centerHorizontal=“true”

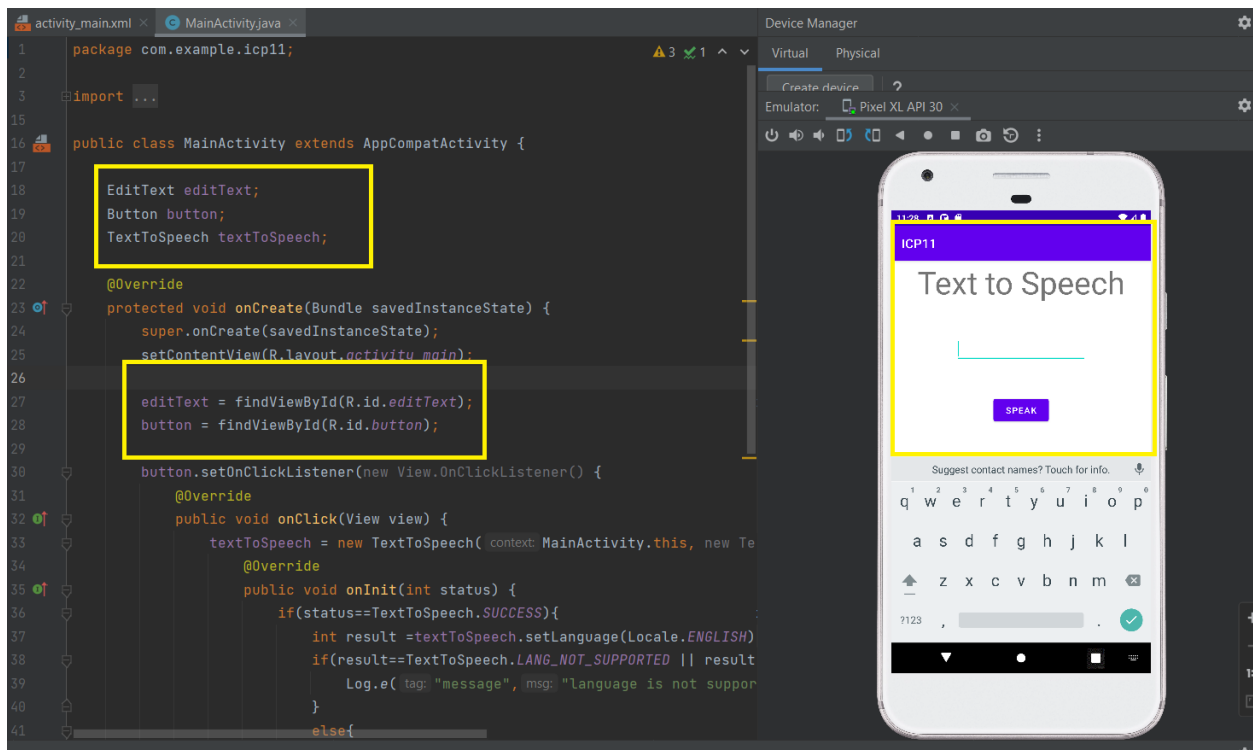
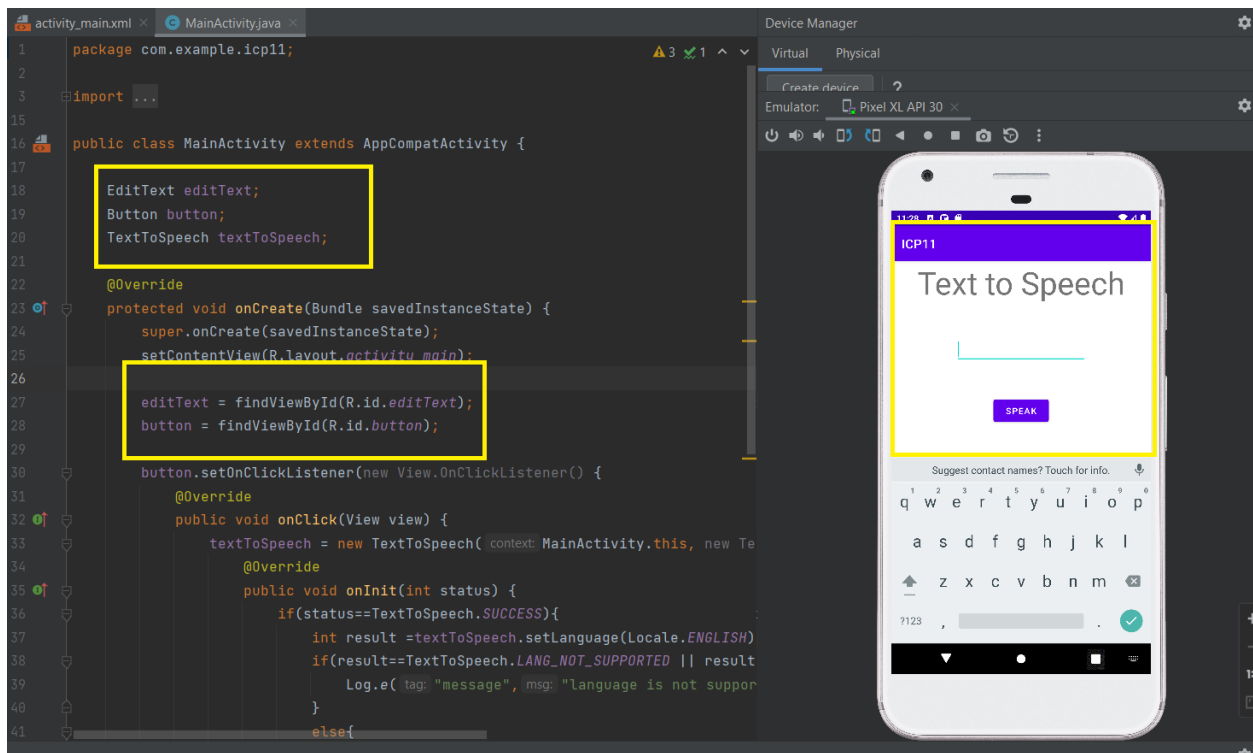


```
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      tools:context=".MainActivity">
8
9      <TextView
10         android:id="@+id/textView2"
11         android:layout_width="wrap_content"
12         android:layout_height="wrap_content"
13         android:layout_centerHorizontal="true"
14         android:text="Text to Speech"
15         android:textSize="50dp"
16         tools:ignore="MissingConstraints" />
17
18      <Button
19         android:id="@+id/button"
20         android:layout_width="wrap_content"
21         android:layout_height="wrap_content"
22         android:layout_centerHorizontal="true"
23         android:text="Speak"
24         android:layout_below="@+id/editText"
25         android:layout_marginTop="50dp"
26         tools:ignore="MissingConstraints"
27     />
```

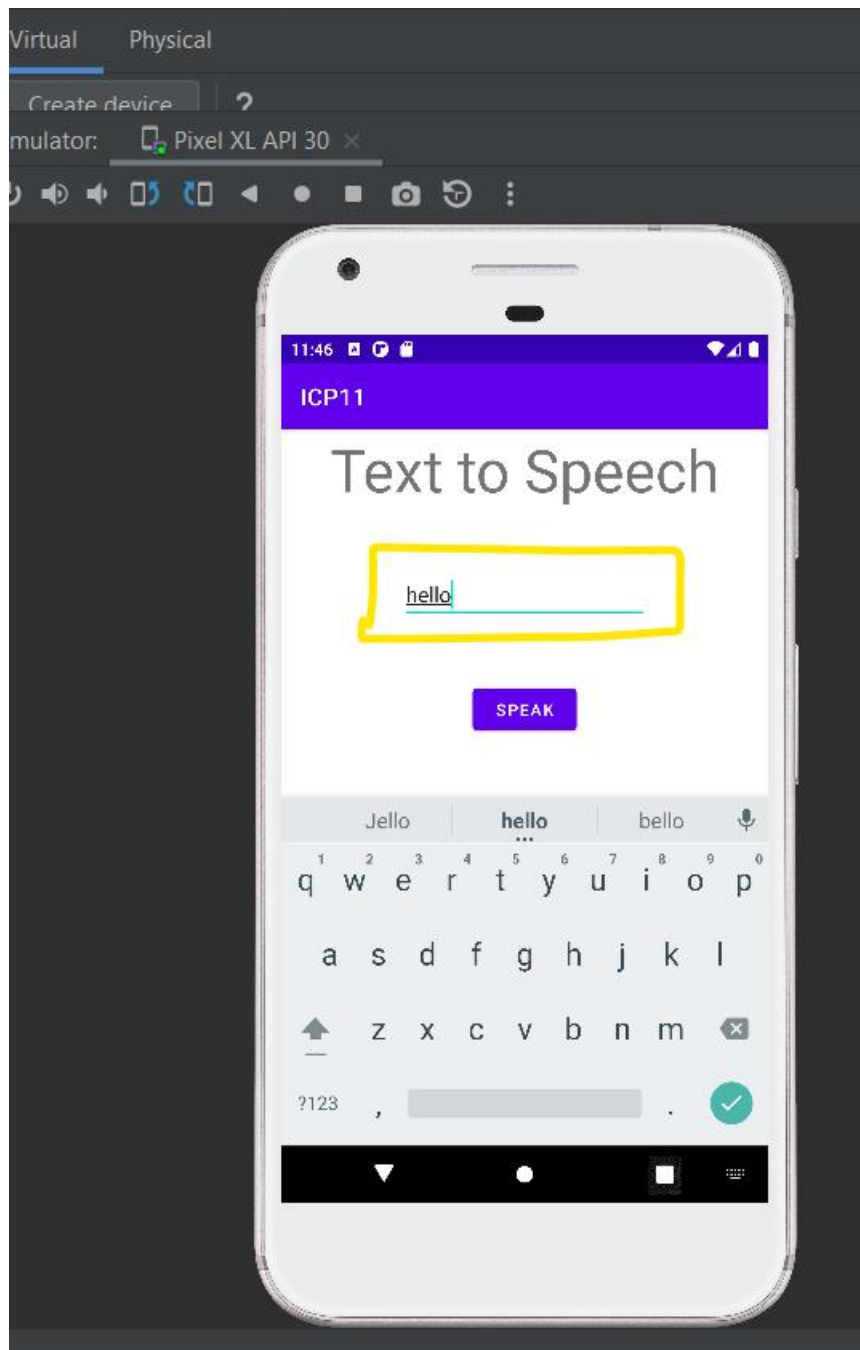
```
<EditText
    android:id="@+id/editText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_centerHorizontal="true"
    android:ems="10"
    android:inputType="textPersonName"
    android:text="Enter your Text"
    android:layout_below="@+id/textView2"
    android:layout_marginTop="50dp"
    tools:ignore="MissingConstraints"
/>
```

RelativeLayout>

The logic is written in “Mainactivity.java”. We have created variables for it that are “Edit text “ , “Buttons” and “text to speech”



Entering Hello : When clicked on Speak – Voice comes as Hello from the speaker.



### **Contribution:**

We have contributed equally.