Text to Speech

Import Useful Libraries

```
In [1]: from tkinter import *
        from gtts import gTTS
        from playsound import playsound
```

Initialize the window & add Heading and Label in it

```
In [2]: root = Tk()
        root.geometry('350x200')
        root.resizable(0,0)
        root.config(bg = 'ghost white')
        root.title('TEXT_TO_SPEECH')

        # Heading
        Label(root, text = 'TEXT TO SPEECH' , font='arial 20 bold' , bg ='white smoke').pack()

        # label
        Label(root, text ='Enter Text', font ='arial 15 bold', bg ='white smoke').place(x=20,y=60)
```

Create an Entry for text

```
In [3]: Msg = StringVar()

        # Entry
        entry_field = Entry(root, textvariable = Msg, width ='50')
        entry_field.place(x=20 , y=100)
```

Fuction for converting Text into Speech

```
In [4]: def Text_to_speech():
            Message = entry_field.get()
            speech = gTTS(text = Message)
            speech.save('E:/WORK\PYTHON/01 - Basic Python Projects/08 - Text to Speech/Speech.mp3')
            playsound('E:/WORK\PYTHON/01 - Basic Python Projects/08 - Text to Speech/Speech.mp3')
```

Create Buttons for Play, Exit & Reset

```
In [5]: def Exit():
            root.destroy()

        def Reset():
            Msg.set("")

        # Buttons
        Button(root, text = "PLAY" , font = 'arial 15 bold', command = Text_to_speech, width =4).place(x=50, y=140)
        Button(root,text = 'EXIT',font = 'arial 15 bold' , command = Exit, bg = 'OrangeRed1').place(x=125,y=140)
        Button(root, text = 'RESET', font='arial 15 bold', command = Reset).place(x=200 , y =140)
```

Execute the program

```
In [6]: root.mainloop()
```