

```
In [46]: # importing the pyttsx library
import pyttsx3
engine = pyttsx3.init()
engine.say("kumar")
engine.say("he ia an youtuber")
engine.runAndWait()
```

```
In [1]: # Python program to show
# how to convert text to speech
import pyttsx3
converter = pyttsx3.init()
converter.setProperty('rate', 150)
converter.setProperty('volume', 0.7)
converter.say("srikanth has buyed a new laptop")
converter.say("his laptop was very nice to see ")
converter.runAndWait()
voices = converter.getProperty('voices')

for voice in voices:
    print("Voice:")
    print("ID: %s" %voice.id)
    print("Name: %s" %voice.name)
    print("Age: %s" %voice.age)
    print("Gender: %s" %voice.gender)
    print("Languages Known: %s" %voice.languages)
voice_id = "HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Speech\Voices\Tokens\TTS_MS_EN-US_ZIRA_11.0"

converter.setProperty('voice', voice_id)

converter.runAndWait()
```

Voice:  
ID: HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Speech\Voices\Tokens\TTS\_MS\_EN-US\_DAVID\_11.0  
Name: Microsoft David Desktop - English (United States)  
Age: None  
Gender: None  
Languages Known: []  
Voice:  
ID: HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Speech\Voices\Tokens\TTS\_MS\_EN-US\_ZIRA\_11.0  
Name: Microsoft Zira Desktop - English (United States)  
Age: None  
Gender: None  
Languages Known: []

```
In [34]: from gtts import gTTS
import os
mytext = 'vrk4tech is an youtube channel about job and internship updates'
language = 'en'
myobj = gTTS(text=mytext, lang=language, slow=False)
myobj.save("welcome.mp3")
os.system("start welcome.mp3")
```

Out[34]: 0

```
In [ ]: from gtts import gTTS
import os
mytext = 'iam vardolu ravi kumar'
language = 'en'
myobj = gTTS(text=mytext, lang=language, slow=False)
myobj.save("output.mp3")
os.system("start output.mp3")
```

```
In [ ]: import speech_recognition as sr

r = sr.Recognizer()

while(1):

    try:

        with sr.Microphone() as source2:
            r.adjust_for_ambient_noise(source2, duration=0.2)

            audio2 = r.listen(source2)

            MyText = r.recognize_google(audio2)
            MyText = MyText.lower()

            print("Did you say "+MyText)
            SpeakText(MyText)
        except sr.RequestError as e:
            print("Could not request results; {0}".format(e))

    except sr.UnknownValueError:
        print("unknown error ocurred")
```

Did you say hello  
Did you say unhen delhi  
Did you say update the  
Did you say undertaker tera vada  
unknown error ocurred  
unknown error ocurred  
Did you say parlour near me  
Did you say karishma tanna  
unknown error ocurred  
unknown error ocurred  
unknown error ocurred  
unknown error ocurred  
unknown error ocurred  
unknown error ocurred

```
In [9]: from gtts import gTTS
import os

fh = open("test.txt","r")
myText = fh.read().replace("\n","")
language = "en"
output = gTTS(text=myText, lang=language, slow=False)
output.save("output.mp3")
fh.close()
os.system("start output.mp3")
```

Out[9]: 0

```
In [1]: from tkinter import *
from tkinter import ttk
from tkinter.messagebox import showinfo
import tkinter.scrolledtext as scrolledtext
import pyttsx3

# root window
root = Tk()

root.resizable(0,0)
root.configure(background="white")
root.title("Text To Speak")

# functions
def speak():
    engine = pyttsx3.init()
    audio_string = text.get(1.0,END)
    engine.say(audio_string)
    engine.runAndWait()
    engine.stop()

def save_audio():
    engine = pyttsx3.init()
    audio_string = text.get(1.0,END)
    engine.save_to_file(audio_string,'test.mp3')
    engine.runAndWait()
    engine.stop()
    showinfo("python says","audio is saved as test.mp3")

#
text = scrolledtext.ScrolledText(root,width=30,height=10,wrap=WORD,padx=10,pady=10,borderwidth=5,relief=RIDGE)
text.grid(row=0,columnspan=3)

#buttons
tk.Button(root,text="Listen",width=7,command=speak).grid(row=2,column=0,ipadx=2)
tk.Button(root,text="Clear",width=7,command=lambda:text.delete(1.0,END)).grid(row=2,column=1,ipadx=2)
tk.Button(root,text="Save",width=7,command=save_audio).grid(row=2,column=2,ipadx=2)

root.mainloop()
```

```
In [2]: from tkinter import *
from tkinter import ttk,filedialog
from gtts import gTTS
import random
import pyttsx3
import os

e=pyttsx3.init()

root=Tk()
root.geometry("880x720")
root.title('TextToSpeech')

count=1
def slider():
    global count
    if (count==1):
        slider_label.configure(image=p1)
    elif(count==2):
        slider_label.configure(image=p2)
    else:
        slider_label.configure(image=p3)
        count=0
    count+=1
    slider_label.after(1000,slider)

def blind():
    color=['pink','yellow','red','blue','green']
    a=random.choice(color)
    lbl_title.configure(bg=a)
    lbl_title.after(200,blind)

def talk():
    def check_voice():
        if (gender == 'Male'):
            e.setProperty('voice', v[0].id)
            e.setProperty('volume', (volume_) / 100)
            e.say(text)
            e.runAndWait()
        else:
            e.setProperty('voice', v[1].id)
            e.setProperty('volume', (volume_) / 100)
            e.say(text)
            e.runAndWait()

    text = txt_area.get(1.0, END)
    gender = gender_combo.get()
    speed = speed_combo.get()
    volume_ = scale_level.get()
    v = e.getProperty('voices')
    if (text):
        if (speed == 'Fast'):
            e.setProperty('rate', 300)
            check_voice()
        elif (speed == 'Normal'):
            e.setProperty('rate', 150)
            check_voice()
        else:
            e.setProperty('rate', 50)
            check_voice()

    def download():
        def check_voice():
            if (gender == 'Male'):
                e.setProperty('voice', v[0].id)
                e.setProperty('volume', (volumes) / 100)
                path=filedialog.askdirectory()
                os.chdir(path)
                e.save_to_file(text,'music.mp3')
                e.runAndWait()
            else:
                e.setProperty('voice', v[1].id)
                e.setProperty('volume', (volumes) / 100)
                path = filedialog.askdirectory()
                os.chdir(path)
                e.save_to_file(text, 'music.mp3')
                e.runAndWait()

        text=txt_area.get(1.0,END)
        gender=gender_combo.get()
        speed=speed_combo.get()
        volumes=scale_level.get()
        v=e.getProperty('voices')
        if(text):
            if(speed=='Fast'):
                e.setProperty('rate',300)
                check_voice()
            elif(speed=='Normal'):
                e.setProperty('rate',150)
                check_voice()
            else:
                e.setProperty('rate',50)
                check_voice()

    #=====title=====
    lbl_title=Label(root,text="Text T0 Speech",font='arial 50 bold')
    lbl_title.place(x=0,y=0,relwidth=1)

    f1=Frame(root,relief=GROOVE,bd=5)
    f1.place(x=10,y=100,width=600,height=300)

    scrol_bar=Scrollbar(f1,orient=VERTICAL)
    scrol_bar.pack(side=RIGHT,fill=Y)
    txt_area=Text(f1,font=('times new rommon',15,'bold'),bg='grey99',yscrollcommand=scrol_bar.set,wrap=WORD)
    txt_area.pack(fill=BOTH)

    scrol_bar.config(command=txt_area.yview)
    gender_lbl=Label(root,text='Gender',font='Impack 25 bold',width=10,bg='blue',fg='orange')
    gender_lbl.place(x=10,y=410)

    speed_lbl=Label(root,text='Speed',font='Impack 25 bold',width=10,bg='BLUE',fg='ORANGE')
    speed_lbl.place(x=230,y=410)

    volume_lbl=Label(root,text='Volume',font='Impack 25 bold',width=10,bg='blue',fg='orange')
    volume_lbl.place(x=450,y=410)

    #=====combo box=====
    gender_combo=ttk.Combobox(root,values=['Male','Female'],font='arial 12 bold',state='r')
    gender_combo.place(x=10,y=500)
    gender_combo.set('Male')

    speed_combo=ttk.Combobox(root,values=['Fast','Normal','slow'],font='arial 12 bold',state='r')
    speed_combo.place(x=230,y=500)
    speed_combo.set('Fast')

    scale_level=Scale(root,from =0,to=100,orient=HORIZONTAL,length=160)
    scale_level.place(x=450,y=480)
    scale_level.set(50)

    #=====buttons=====
    play_btn=Button(root,text='Play',font='arial 25 bold',width=10,bg='PINK',activebackground='yellow',relief=SUNKEN)

    play_btn.place(x=100,y=600)
    d_btn=Button(root,text='Download',width=10,font='arial 25 bold ',relief=SUNKEN,bg='GREEN',activebackground='yellow')
    d_btn.place(x=400,y=600)

    #=====

    root.configure(bg='GREEN')

    root.mainloop()
```

In [ ]: