#*pip install pyaudio*

#*pip install pipwin*

#*pip install pyttsx3*

#*pip install speechrecognition*

#*pip list*

#*Function definitions for the following two functions*

#*for the "record\_text" function we need following libraries so the python can access our microphone.*

*import* speech\_recognition *as* sr

*import* pyttsx3

#*Initialize the recognizer (It is the Python object used to interact with microphone)*

r = sr.Recognizer()

# *Will allow the python to record audio input from PC microphone. It will convert audio input into the string.*

def *record\_text*():

    # *Loop in case of errors or it cannot convert audio to text so we need to try again*

*while*(1):

*try*:

            # *use the microphone as source for input.*

*with* sr.Microphone() *as* source2:

                # *Prepare recognizer to recieve input*

                r.adjust\_for\_ambient\_noise(source2, duration=0.9)

                #*listen for the user's input*

                audio2 = r.listen(source2)

                # *Using google to recognize audio from users input*

                MyText = r.recognize\_google(audio2)

*return* MyText

*except* sr.RequestError *as* e:

            print("Could not request results; {0}".format(e))

*except* sr.UnknownValueError:

            print  ("unknown error occured")

*return*

# *Will allow the python program to take the string produced from the previous funtion and output it to a text file.*

def *output\_text*(text):

    # *Open a text file using open function and appending "a" or adding text to it*

    f = open("output.txt", "a") #*Acess to the file is stored in f variable*

    f.write(text) #*using write function to append text to the file*

    f.write("\n") #*Text is seperated using new line character*

    f.close() #*Close access to the file*

*return*

*while*(1):

    text = record\_text()

    output\_text(text)

    print("Wrote text")