"""

pip install googletrans==3.1.0a0

pip install tk

pip install pyttsx3

"""

import googletrans

from tkinter import \*

from tkinter import messagebox

import tkinter as tk

from tkinter import ttk

from googletrans import Translator

import pyttsx3

import textblob

languages = googletrans.LANGUAGES

language\_list = list(languages.values())

#print(language\_list)

#Invoke call to class to view a window

window = tk.Tk()

#Set dimensions of window and title

window.geometry("550x500")

window.title("Python Language Translator")

#Import the Translator class which will read the input and translate

#Default translation is done by detection of input and to english

translator = Translator()

#Title of the app

title\_label = Label(window, text=" Language Translator Using Python",font=("Gayathri", 12)).pack()

#Read inputs

#Text input

text\_label = Label(window, text="Text to translate:").place(x=10,y=20)

text\_entry = Text(window, width=40, height=5,font=("Ubuntu Mono",12))

text\_entry.place(x=130,y=20)

#Source language input

src\_label = Label(window, text="Source language (empty: auto-detect):").place(x=10,y=120)

original\_combo = ttk.Combobox(window,width=30,value=language\_list)

original\_combo.current(21)

original\_combo.place(x=275,y=120);

#src\_entry = Text(window, width=20,height=1,font=("Ubuntu Mono",12))

#src\_entry.place(x=275,y=120)

#Destination input

dest\_label = Label(window, text="Target language (empty: english-default):").place(x=10,y=150)

translated\_combo = ttk.Combobox(window,width=30,value=language\_list)

translated\_combo.current(21)

translated\_combo.place(x=275,y=150);

dest\_entry = Text(window, width=55,height=10,font=("Ubuntu Mono",12))

dest\_entry.place(x=10,y=180)

def translate\_function(): #event)

dest\_entry.delete(1.0,END)

try:

#get the languages from dictionary keys

#get the from language key

for key,value in languages.items():

if(value == original\_combo.get()):

from\_language\_key = key

# get the to language key

for key,value in languages.items():

if(value == translated\_combo.get()):

to\_language\_key = key

words = textblob.TextBlob(text\_entry.get(1.0,END))

words = words.translate(from\_lang = from\_language\_key, to = to\_language\_key)

dest\_entry.insert(1.0,words)

engine = pyttsx3.init()

engine.say(words)

engine.runAndWait()

except Exception as e:

messagebox.showerror("Translator ",e)

def clear():

dest\_entry.delete("1.0","end-1c")

text\_entry.delete("1.0","end-1c")

#Translate function and clear function activated through buttons

button1 = Button(window,text='Translate', bg = 'Turquoise',command=translate\_function).place(x=190,y=400)

button2 = Button(window,text='Clear', bg = 'Turquoise' ,command=clear).place(x=300,y=400)

#close the app

window.mainloop()