LANGUAGE TRANSLATOR

• Source Code:

```
from tkinter import * #version-tk 8.6
 from tkinter import ttk
 import googletrans # version - 4.0.0
 from googletrans import Translator, LANGUAGES
 from gtts import gTTS # version -2.3.2
 import gtts.lang
 import playsound # version-0.2.13
 import os
 def translate():
      text = source text.get(1.0, END).strip()
      src lang = source lang.get()
      dst lang = dest lang.get()
      translator = Translator()
      translation = translator.translate(text, src=src lang,
      dest=dst lang)
      translated text.delete(1.0, END) translated text.insert(END,
      translation.text)
def clear():
       source text.delete(1.0, END)
      translated text.delete(1.0, END)
# Create the main application window
root = Tk()
root.title("Language Translator")
# Create a frame for the content
 frame = Frame(root)
 frame.pack(pady=30)
```

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code language = gtts.lang.tts langs() # Getting all the languages
 supported by gtts
del code language['zh-TW']
del code language['zh']
# Create source text label and textbox
 source text label = Label(frame, text="Source Text", font=("Arial",
14))
source text label.grid(row=0, column=0, padx=10, pady=10,
sticky="w") # Sticky='w' means stretch to west
source text = Text(frame, font=("Arial", 12), height=5, width=40)
 source text.grid(row=1, column=0, padx=10, pady=5)
# Create source language label and drop-down menu
source lang label = Label(frame, text="Source Language",
font=("Arial", 14))
source lang label.grid(row=2, column=0, padx=10, pady=10,
sticky="w")
source lang = ttk.Combobox(frame,
values=list(code language.values()), font=("Arial",12))
source lang.grid(row=3, column=0, padx=10, pady=5)
source lang.set("English")
# Create destination language label and drop-down menu
dest lang label = Label(frame, text="Destination Language",
font=("Arial", 14))
dest lang label.grid(row=4, column=0, padx=10, pady=10, sticky="w")
dest lang = ttk.Combobox(frame,
values=list(code language.values()), font=("Arial", 12))
dest lang.grid(row=5, column=0, padx=10, pady=5)
dest lang.set("Hindi") gtts.lang.tts langs().values()
```

```
def speaker():
    def get language codes():
            langs = gtts.lang.tts_langs()
            language codes = {}
            for lang, name in langs.items():
               language codes[name.lower()] = lang # names of the
               languages are converted to lowercase and used as key
    return language codes
    text = translated text.get(1.0, END)
    language_codes = get_language_codes()
    converted voice = gTTS(text=text,
    lang=str(language codes[dest lang.get().lower()]))
    # lang will be the lowercase version of the selected language by
      user
    converted voice.save("voice.mp3")
    playsound.playsound("voice.mp3")
    os.remove("voice.mp3")
# Create translate button
  translate button = Button(frame, text="Translate", font=("Arial",
  14), command=translate)
  translate button.grid(row=6, column=0, padx=10, pady=10)
# Create translated text label and textbox
 translated text label = Label(frame, text="Translated Text",
 font=("Arial", 14))
  translated text label.grid(row=7, column=0, padx=10, pady=10,
 sticky="w")
 translated text = Text(frame, font=("Arial", 12), height=5,
  width=40
 translated text.grid(row=8, column=0, padx=10, pady=5)
```

```
# Create clear button
clear_button = Button(frame, text="CLEAR", command=clear)
clear_button.grid(row=9, column=0, padx=10, pady=10)

# Create speaker button
Speaker_button = Button(frame, text="SPEAKER",
command=speaker)
Speaker_button.grid(row=10, column=0, padx=10, pady=10)

# Start the application
root.mainloop()
```