

TRANSLATOR USING PYTHON

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from tkinter import *
from tkinter import ttk
from deep_translator import GoogleTranslator # Using
GoogleTranslator for better accuracy

# Function to perform translation
def change():
    src_lang = comb_Ent.get().lower()
    dest_lang = comb_Trans.get().lower()
    text_to_translate = Ent_txt.get(1.0, END).strip()

    if not text_to_translate:
        Trans_txt.delete(1.0, END)
        Trans_txt.insert(END, "Please enter text to translate.")
        return

    try:
        translator = GoogleTranslator(source=src_lang,
target=dest_lang)
        translated_text =
translator.translate(text_to_translate)
        Trans_txt.delete(1.0, END)
        Trans_txt.insert(END, translated_text)
    except Exception as e:
        Trans_txt.delete(1.0, END)
        Trans_txt.insert(END, f"Error: {str(e)}")

# GUI setup
root = Tk()
root.title("Language Translator")
root.geometry("500x600")
root.config(bg="Black")

Label(root, text="Language Translator", font=("Times New Roman",
24, "bold"), fg="Sky Blue", bg="Black").place(x=50, y=20,
width=400)

Label(root, text="Enter Text", font=("Times New Roman", 16,
"bold"), fg="White", bg="Black").place(x=100, y=80, width=300)
Ent_txt = Text(root, font=("Times New Roman", 12), wrap=WORD)
Ent_txt.place(x=10, y=110, height=150, width=480)

# List of languages with first letter capitalized
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languages = [  
    'Afrikaans', 'Albanian', 'Amharic', 'Arabic', 'Armenian',  
    'Azerbaijani', 'Basque', 'Belarusian',  
    'Bengali', 'Bosnian', 'Bulgarian', 'Catalan', 'Chinese',  
    'Croatian', 'Czech', 'Danish', 'Dutch',  
    'English', 'Estonian', 'Filipino', 'Finnish', 'French',  
    'Galician', 'Georgian', 'German', 'Greek',  
    'Gujarati', 'Hebrew', 'Hindi', 'Hungarian', 'Icelandic',  
    'Indonesian', 'Irish', 'Italian', 'Japanese',  
    'Javanese', 'Kannada', 'Kazakh', 'Korean', 'Kyrgyz', 'Lao',  
    'Latin', 'Latvian', 'Lithuanian', 'Macedonian',  
    'Malay', 'Malayalam', 'Maltese', 'Marathi', 'Mongolian',  
    'Nepali', 'Norwegian', 'Pashto', 'Persian',  
    'Polish', 'Portuguese', 'Punjabi', 'Romanian', 'Russian',  
    'Serbian', 'Sinhala', 'Slovak', 'Slovenian',  
    'Spanish', 'Sundanese', 'Swahili', 'Swedish', 'Tamil',  
    'Telugu', 'Thai', 'Turkish', 'Ukrainian', 'Urdu',  
    'Uzbek', 'Vietnamese', 'Welsh', 'Yiddish', 'Yoruba', 'Zulu'  
]  
  
comb_Ent = ttk.Combobox(root, values=languages)  
comb_Ent.place(x=10, y=280, height=40, width=150)  
comb_Ent.set("English") # Default source language  
  
Button(root, text="Translate", relief=RAISED,  
command=change).place(x=175, y=280, height=40, width=150)  
  
comb_Trans = ttk.Combobox(root, values=languages)  
comb_Trans.place(x=340, y=280, height=40, width=150)  
comb_Trans.set("English") # Default target language (English  
â†’ English)  
  
Label(root, text="Translation", font=("Times New Roman", 16,  
"bold"), fg="White", bg="Black").place(x=100, y=340, width=300)  
Trans_txt = Text(root, font=("Times New Roman", 12), wrap=WORD)  
Trans_txt.place(x=10, y=370, height=150, width=480)  
  
root.mainloop()
```