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In [28]: import csv
import os
import pandas as pd

def sign_up(username, password):
    with open("C:\\Users\\aliya\\OneDrive\\Documents\\login.csv", 'a', newline='')
        writer = csv.writer(file)
        writer.writerow([username, password])

def login(username):
    with open("C:\\Users\\aliya\\OneDrive\\Documents\\login.csv", 'r') as file:
        check = file.readlines()
        for row in check:
            saved_name, saved_pass = row.strip().split(',')
            if saved_name == username:
                saved_password = saved_pass
                break
            else:
                print("User does not exist. Proceed to sign up.")
        while True:
            password = input(">>> Password: ")
            if password == saved_password:
                print("\n> Successfully logged in. Continue your learning journey.")
                break
            else:
                print("Incorrect password. Try again.")

from deep_translator import GoogleTranslator
def learn(word):
    result = GoogleTranslator(source = 'en', target = 'es').translate(word)
    return result

def save_words(username, learned):
    filename = f"C:\\Users\\aliya\\OneDrive\\Documents\\{username}_words.csv"
    file_exists = os.path.isfile(filename)
    with open(filename, 'a', newline = '') as file:
        writer = csv.writer(file)
        if not file_exists:
            writer.writerow(["English Word", "Spanish Translation"])
        writer.writerows(learned)

def display(username, print_df = True):
    filename = f"C:\\Users\\aliya\\OneDrive\\Documents\\{username}_words.csv"
    if os.path.isfile(filename):
        eng_words = []
        translations = []
        with open(filename, 'r') as file:
            reader = csv.reader(file)
            headers = next(reader)
            for row in reader:
                eng_words.append(row[0])
                translations.append(row[1])
        data = {"English Word": eng_words, "Spanish Translation": translations}
        df = pd.DataFrame(data, index = range(1, len(eng_words) + 1))
        if print_df:
            print("\nLearned words: ")
            print()
            print(df)
        return df
    else:
        print("User does not exist. Proceed to the learn function to start your learning journey. Proceed to the learn

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def quiz(username, counter):
    df = display(username, print_df = False)
    if df is not None:
        filename = f"C:\\Users\\aliya\\OneDrive\\Documents\\{username}_words.csv"
        if os.path.isfile(filename):
            words_for_quiz = df.sample(n=max(1, len(df)))
            print("\n Good luck with remembering!")
            print("o Translate the displayed English words to Spanish: ")
            for i, row in words_for_quiz.iterrows():
                word = row['English Word']
                correct_translation = row['Spanish Translation']
                user_translation = input(f"\nTranslation of '{word}': ")
                counter['Word Count'] += 1

                if user_translation.lower() == correct_translation.lower():
                    counter['Correct Count'] += 1
                    print("\n--> Correct answer!")
                else:
                    counter['Incorrect Count'] += 1
                    print(f"\n--> Incorrect. The correct translation is {correct_translation}")
            else:
                print("You have not started your learning journey. Proceed to the learning panel")
        else:
            print("Proceed to the learning panel to learn words before taking the quiz")

def progress(username, counter):
    print("\nResults:")
    print(f"Number of words attempted: {counter['Word Count']}")
    print(f"Number of correct answers: {counter['Correct Count']}")
    print(f"Number of incorrect answers: {counter['Incorrect Count']}")

def main():
    verified = False
    counter = {'Word Count': 0, 'Correct Count': 0, 'Incorrect Count': 0}
    print("\n\n")
    print("THE LANGUAGE LEARNING TUTOR\n\n")
    print("\n")
    print("Learn Spanish words and test your learning.")
    while True:
        if not verified:
            print("\n_____")
            print(" Main Menu")
            print("    1. Sign up")
            print("    2. Already signed up? Login ")
            print("_____")
        else:
            print("_____")
            print("=> Choose any task")
            print("    3. Learn translation ")
            print("    4. Quiz")
            print("_____")
            print("=> Other options")
            print("    5. Display learned words")
            print("    6. View progress")
            print("    7. Exit tutor")
            print("_____")

        ch = int(input("\n=> Enter your choice: "))

        if ch == 1:
            print("\nLoading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js")
            user = input("Enter a username: ")
            password = input("Enter a password: ")

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    sign_up(username, password)
    print("\n▶ Successfully signed up. Enter your learning journey.")
    verified = True

elif ch == 2:
    username = input("\n>>> Username: ")
    login(username)
    verified = True

elif ch == 3 and verified:
    learned = []
    while True:
        word = input("\nEnglish Word to translate: ")
        translation = learn(word)
        print("↔Spanish Translation:", translation)
        learned.append([word, translation])
        response = input("\nDo you want to learn another word? Enter YES/NO")
        if response != 'yes':
            break
    save_words(username, learned)
    print('\nYour learning has been logged.')

elif ch == 4 and verified:
    quiz(username, counter)

elif ch == 5 and verified:
    display(username)

elif ch == 6 and verified:
    progress(username, counter)

elif ch == 7 and verified:
    print("Thank you for using the Language Learning Tutor! Hope you enjoyed!")
    break
else:
    print("Invalid choice")

main()

```

THE LANGUAGE LEARNING TUTOR

Learn Spanish words and test your learning.

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Main Menu

1. Sign up
  2. Already signed up? Login
- 

⇒ Enter your choice: 2

>>> Username: aliya  
>>> Password: user123

► Successfully logged in. Continue your learning journey.

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⇒ Choose any task

3. Learn translation
  4. Quiz
- 

⇒ Other options

5. Display learned words
  6. View progress
  7. Exit tutor
- 

⇒ Enter your choice: 3

English Word to translate: green  
↪ Spanish Translation: verde

Do you want to learn another word? Enter YES/NO: yes

English Word to translate: blue  
↪ Spanish Translation: azul

Do you want to learn another word? Enter YES/NO: no

Your learning has been logged.

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⇒ Choose any task

3. Learn translation
  4. Quiz
- 

⇒ Other options

5. Display learned words
  6. View progress
  7. Exit tutor
- 

⇒ Enter your choice: 4

- Good luck with remembering!
- Translate the displayed English words to Spanish:

Translation of 'help': help

--> Incorrect. The correct translation is ayuda

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Translation of 'five': cinco

--> Correct answer!

Translation of 'green': verde

--> Correct answer!

Translation of 'word': word

--> Incorrect. The correct translation is palabra

Translation of 'red': rojo

--> Correct answer!

Translation of 'empty': voica

--> Incorrect. The correct translation is vacío

Translation of 'blue': blue

--> Incorrect. The correct translation is azul

Translation of 'welcome': bueino

--> Incorrect. The correct translation is bienvenido

Translation of 'four': cuarto

--> Incorrect. The correct translation is cuatro

Translation of 'nope': no

--> Correct answer!

Translation of 'hello': Hola

--> Correct answer!

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⇒ Choose any task

- 3. Learn translation
- 4. Quiz

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⇒ Other options

- 5. Display learned words
  - 6. View progress
  - 7. Exit tutor
- 

⇒ Enter your choice: 5

Learned words:

	English Word	Spanish Translation
1	four	cuatro
2	five	cinco
3	word	palabra
4	nope	no
5	red	rojo
6	empty	vacío
7	hello	Hola
8	welcome	bienvenido

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10 green verde

11            blue            azul

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⇒ Choose any task

3. Learn translation

4. Quiz

---

⇒ Other options

5. Display learned words

6. View progress

7. Exit tutor

---

⇒ Enter your choice: 6

Results:

Number of words attempted: 11

Number of correct answers: 5

Number of incorrect answers: 6

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⇒ Choose any task

3. Learn translation

4. Quiz

---

⇒ Other options

5. Display learned words

6. View progress

7. Exit tutor

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⇒ Enter your choice: 7

Thank you for using the Language Learning Tutor! Hope you enjoyed your learning journey!

In [ ]: