**Writing Technical Documentation**

Desenvolver a habilidade de escrever documentação técnica clara, objetiva e funcional, voltada para usuários desenvolvedores.

**Document a Python Script**

**Instructions:**  
Imagine you’ve just written a Python script that connects to an SQLite database, adds new user information (name and email), and then displays all users currently stored. Your task is to create a full technical documentation for this script.

Your documentation must include the following sections:

**1. Project Overview**

*What does the script do? What is its purpose? Who would use it?*

**2. Features**

*List and describe at least 3 key features of the script.*

**3. Installation & Requirements**

*How should a user install and run the script? Mention required packages, environment, etc.*

**4. Possible Issues / Limitations**

*Describe at least 2 possible errors or limitations a user might face.*

**Extra Tip:** Try to use transition words (Firstly, In addition, Therefore, etc.), modal verbs (can, might, should), and technical vocabulary naturally.

**Ask and Answer a Technical Question**

**Instructions:**  
Choose a common question or doubt related to IT, programming, or databases that a beginner might ask. Your task is to write a professional and helpful response, as if answering on a tech forum.

**Answer the questions**

Inclua os seguintes elementos:

* Uma explicação direta da dúvida
* Termos técnicos explicados com clareza
* Comparações ou exemplos práticos
* Um tom educado, claro e profissional
* What’s the difference between a database and a spreadsheet?
* Why is Python so popular for beginners?
* What are the advantages of using version control systems like Git?
* How does data backup protect information?
* What’s the role of logic in programming?
* What is the difference between frontend and backend?

**Useful Vocabulary:**

* functionality
* interface
* user-friendly
* security
* performance
* flexibility
* real-time
* efficiency
* error-prone
* accessible

**Extra Challenge:**

Inclua uma breve recomendação pessoal com base em sua experiência:

"In my opinion, for beginners..."  
"From what I've learned, it's better to..."

**Writing a Comparative Tech Review**

**Objetivo:** Praticar escrita argumentativa em inglês técnico, comparando tecnologias de forma crítica e profissional.

**Compare Two Technologies**

**Instructions:**  
Choose two technologies (tools, languages, databases, etc.) that you know or have studied. Write a comparative analysis of at least **200 words**, discussing:

* Purpose and main use cases
* Strengths and weaknesses
* Personal recommendation (which one you would choose and why)

**Suggested Topics:**

* Python vs JavaScript
* MySQL vs MongoDB
* Front-end vs Back-end development
* Cloud storage vs Local storage
* SQLite vs PostgreSQL
* GitHub vs GitLab

**Write your analysis below. Use clear paragraphs with topic sentences and transition words. Structure:**

1. **Introduction** – Present both technologies and what they are used for
2. **Comparison** – Discuss pros and cons of each
3. **Conclusion** – State your personal recommendation and justify it

**Useful Vocabulary & Expressions:**

* reliable / flexible / scalable / lightweight / user-friendly
* whereas / while / on the other hand / although
* in terms of performance / regarding compatibility / from a user perspective
* in my experience / I would argue that / the main drawback is

**Writing a Professional Technical Email**

**Objetivo:** Desenvolver a habilidade de escrever e-mails profissionais em inglês, explicando decisões técnicas de forma clara, objetiva e bem estruturada.

**Email to a Project Manager**

**Scenario:**  
You’re working as part of a development team. Your project manager asked why your team decided to use **SQLite** instead of **PostgreSQL** for a new internal tool.

Your task is to write a professional email explaining the decision, using clear and polite language.

**Your email must include:**

1. A polite greeting
2. A short explanation of the context
3. Three main reasons why SQLite was chosen
4. A closing paragraph offering to clarify or assist further
5. A formal closing (Best regards, etc.)

**Useful Phrases:**

* “After careful evaluation…”
* “One of the main reasons was…”
* “From a performance perspective…”
* “Considering the scale of the project…”
* “I’d be happy to provide further details if needed.”
* “Let me know if you’d like to discuss this in more depth.”

**Extra Challenge:**

Write a second version of this email **to a non-technical manager**. How would you adapt the tone and simplify your explanation?

**Writing a Technical Blog Post**

**Objetivo:** Produzir um texto informativo, bem estruturado e envolvente sobre um tema técnico, usando vocabulário especializado, transições claras e tom acessível para leitores interessados em tecnologia.

**Write a Blog Post**

**Instructions:**  
Choose a topic you know or are currently learning about. Your post must:

* Introduce the topic in an engaging way
* Explain the concept or tool clearly
* Include real-world applications or advantages
* Use subheadings and short paragraphs
* Be at least 250 words

**Suggested Topics:**

* What is Python and why is it everywhere?
* The importance of data security in today’s world
* SQL in real life: how businesses use databases
* What I learned about logic in programming
* Why version control is essential for developers
* Cloud vs local storage: what’s better?

**Structure Example:**

**1. Title**  
Make it clear and inviting (e.g., *Why Everyone Is Learning Python in 2025*)

**2. Introduction**  
Hook the reader with a question or a real-life situation

**3. Body Paragraphs**  
Use headings (e.g., *What Is Python?*, *How Is It Used?*, *Why It Matters*)  
Explain your ideas with clarity and examples

**4. Conclusion**  
Wrap up with a personal reflection, a prediction for the future, or a question for the reader

**Helpful Expressions:**

* “In simple terms…”
* “One key benefit is…”
* “Let’s take a closer look at…”
* “From a business perspective…”
* “This concept plays a crucial role in…”
* “In my experience…”
* “Looking ahead, we can expect…”

**Extra Challenge:**

Add a short section called **“Common Misconceptions”**, where you clarify a misunderstanding people often have about your topic.