**Programming Language Evaluation Form**

(Perplexity Generated Guide Form)

This form is designed to systematically evaluate programming languages based on various criteria. Each criterion is rated on a scale from 1 to 5, where 1 indicates poor performance and 5 indicates excellent performance. Additional comments can be provided to justify the ratings.

General Information

* **Language Name**: Python\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Evaluator Name**: Princess Mikylla Daquing\_\_\_\_\_\_\_
* **Date**: Dec. 18, 2024\_\_\_\_\_\_\_\_\_\_\_\_

Evaluation Criteria

1. Readability
   * **Definition**: The ease with which code can be read and understood.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_Python is one of the most readable prog. language ever existed, easy to read and understand\_\_
2. Writability
   * **Definition**: The ease with which a language can be used to create programs.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_Python is also one of the most use friendly prog. language, can you imagine printing hello in one line of code ex. print(“hello”)\_\_\_
3. Reliability
   * **Definition**: The degree to which the language conforms to specifications and performs as expected.
   * **Rating (1-5)**: \_\_4\_\_
   * **Comments**: \_\_Python performs as expected, but it’s dynamic typing makes unexpected issues, but more practice cuz python is very dependable\_\_\_\_
4. Cost
   * **Definition**: The overall cost associated with using the language, including training, development, and maintenance.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_\_Well python is a free language, there’s a lot of free courses online, there’s also a paid version but it’s totally affordable \_\_\_
5. Efficiency
   * **Definition**: The performance of the language in terms of execution speed and resource usage.
   * **Rating (1-5)**: \_\_3\_\_
   * **Comments**: \_\_\_It’s a comprehensible language but it’s not the fastest one when it comes to big computations, C++ and C# is faster than python\_\_\_
6. Portability
   * **Definition**: The ease with which programs can be transferred and run on different platforms.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_\_Python can run on almost anything, whether in windows, linux, and macOS\_\_\_
7. Learnability
   * **Definition**: The time and effort required for new users to become proficient in the language.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_\_As I mentioned earlier, python is user friendly, you can learn how to code in python faster than your ex left you\_\_\_
8. Community Support
   * **Definition**: The availability of resources, documentation, libraries, and forums that aid developers.
   * **Rating (1-5)**: \_\_5\_\_
   * **Comments**: \_\_Python community is so massive and actually active, when you’re having issues just go to github repo to address your issue\_\_\_\_\_
9. Security Features
   * **Definition**: The ability of the language to protect against vulnerabilities and security threats.
   * **Rating (1-5)**: \_\_4\_\_
   * **Comments**: \_\_Python offers a solid security features through its libraries and frameworks, but it’s an interpreted language so you can expect some issues like code injection\_\_\_
10. Abstraction Capabilities
    * **Definition**: The support for data and control abstraction, allowing complex structures to be used easily.
    * **Rating (1-5)**: \_\_5\_\_
    * **Comments**: \_\_Python allows you to handle difficult tasks, because it is an Object Oriented, functional and procedural, letting you make a great scaling projects \_\_\_

Summary

Overall Rating:

Based on the individual ratings, provide an overall rating for the programming language. Overall Rating (1-5): \_4\_\_

Final Comments

Please provide any additional insights or recommendations regarding the evaluated programming language: This structured form helps in systematically evaluating programming languages based on key criteria, facilitating informed decision-making in language selection for projects.

* Python is a well-rounded programming language, comprehensible, easy to code and user friendly, even though it’s just simple for beginners but it’s powerful enough for professionals, whether you’re creating a simple script of using it for big projects even developing a web application. Python is not the fastest one but it’s definitely reliable.