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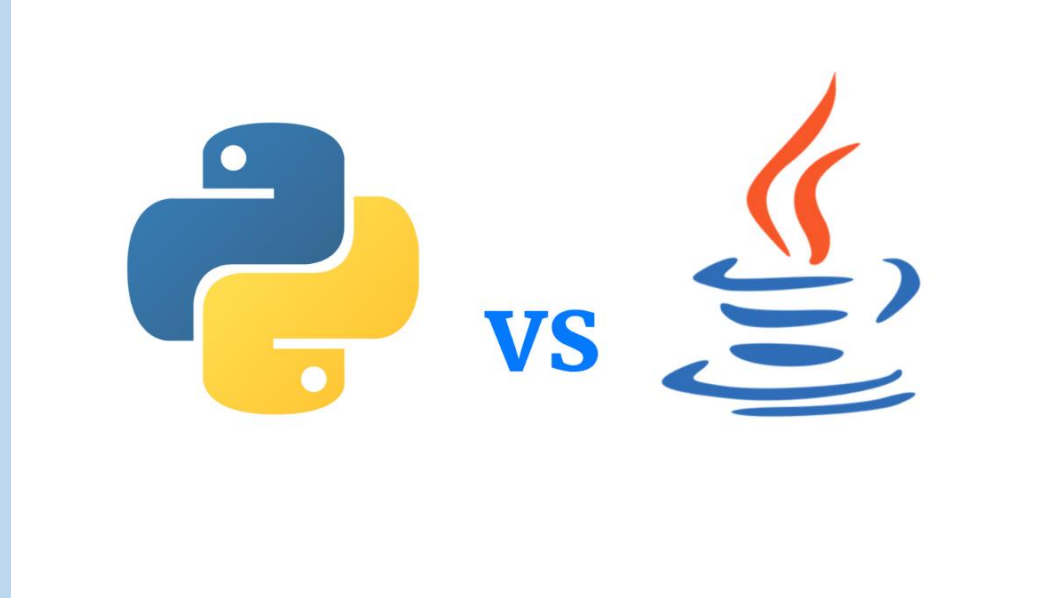
PROF Franco Corapi

Jobshadowing Activity

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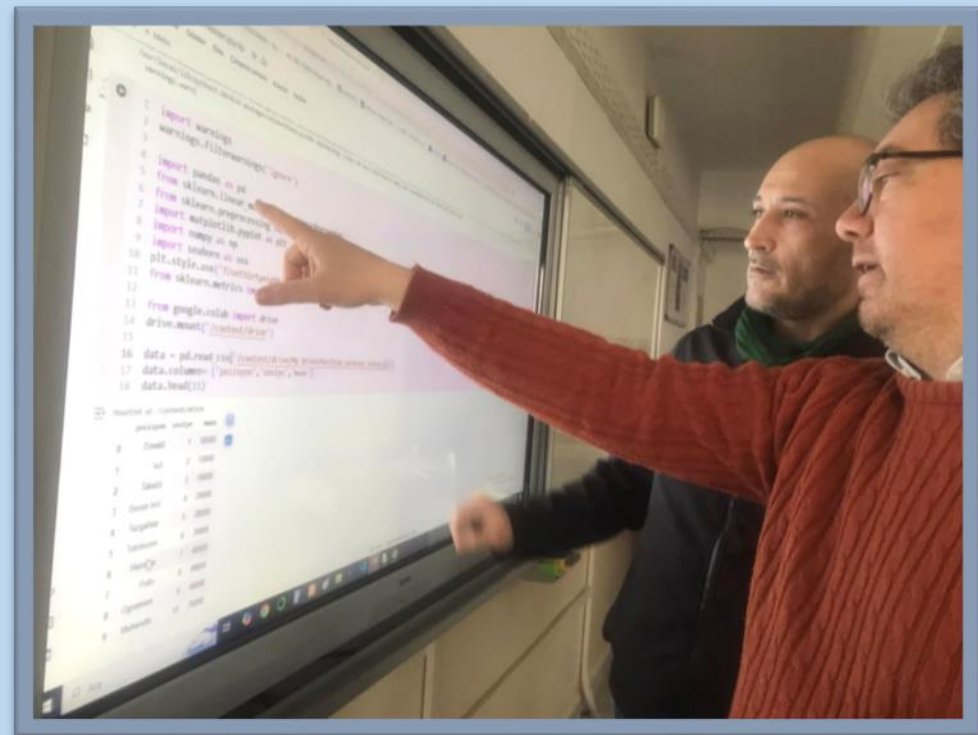
24th-28th February 2025

Bursa



COMPARING THE
PROGRAMMING
LANGUAGES USED IN THE
TWO SCHOOLS





Programming languages play a fundamental role in Computer Science and are considered essential for the development of various applications. The two most popular programming languages in recent years have been Python and Java. Both are popular languages with numerous libraries, making it difficult to choose one. Python is gaining popularity because of its simplicity, but Java has been around for a long time and is therefore more popular than Python. A major difference between Java and Python is that Java is compiled and statically typed, while Python is interpreted and dynamically typed.

As a result, learning Java is more challenging than learning Python.



Python is a high-level, interpreted programming language.

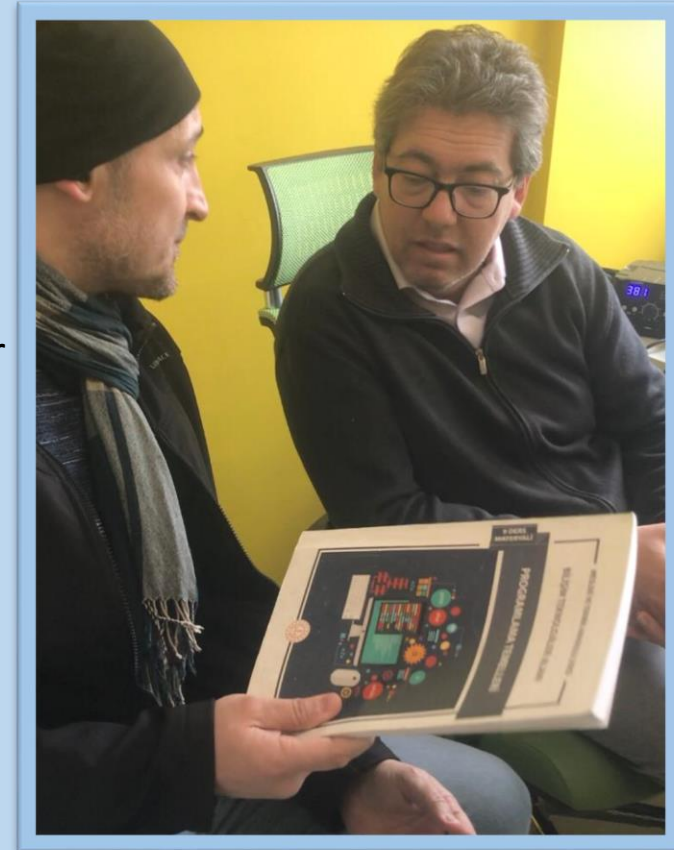
It was invented in 1991, by Guido Van Rossum.

Python is an object-oriented programming language that has large enormous library support making the implementation of various programs and algorithms easy.

Its language constructs and object-oriented approach aim to help programmers to write clear, logical code for various projects.

The biggest strength of Python is its huge collection of standard libraries which can be used for Machine Learning

- GUI Applications (like Kivy, Tkinter, PyQt, etc.)
- Web frameworks like Django (used by YouTube, Instagram, and Dropbox)
- Image processing (like OpenCV, Pillow)
- Web scraping (like Scrapy, BeautifulSoup, and Selenium)
- Test frameworks
- Multimedia
- Scientific computing
- Text processing and many more.





Java is faster than Python, but Python is simpler and easier to learn. Each is well-established, platform-independent, and part of a large, supportive community.

When opting for a starting point, goals and expectations should be considered.

Java is popular among programmers interested in web development, big data, cloud development, and Android mobile app development.

Python is favored by those working in back-end development, app development, data science, and machine learning.

Future outlook of Python and Java

- When we analyze both languages and their future outlook, Python has several advantages over Java: Python dominates key technology growth areas like machine learning, data science, DevOps and web development, giving it an edge moving forward
- Learning the language and testing programs is faster and easier in Python compared to Java primarily due to it boasting a more concise syntax

