

**PSG COLLEGE OF TECHNOLOGY, COIMBATORE – 641 004**  
**DEPARTMENT OF COMPUTER APPLICATIONS**  
**Academic Year 2023-2024 MCA G2 - Semester 1**  
**23MX12 STRUCTURED PROGRAMMING CONCEPTS**  
**ASSIGNMENT PRESENTATION -TREND IN PROGRAMMING LANUAGES**

**Team members:**

23MX209-JANANI MV

23MX106-Dhatchini R

23MX205-Jessica

23MX111-Kajalakshmi S

23MX223-Priyadharshini A

**Scope of trend in programming languages**

Overview of programming language trends for 2023 offers a comprehensive look at the evolving landscape of programming languages. It highlights the continued relevance and growth of languages like Java and Python, driven by their applications in diverse domains such as web development, mobile apps, IoT, AI, and machine learning. Kotlin, with its advanced features and Google's support, is gaining high demand, while languages like C# and PHP remain versatile choices for business, web, and game development. The importance of dynamic, responsive websites is driving demand for expertise in modern languages and frameworks. The expanding role of Python in machine learning and AI is a noteworthy trend, as is the continued relevance of Java in blockchain and IoT. Specialized libraries like Python's Enamoras contribute to language popularity, and emerging fields like quantum computing and low-level system programming are gaining attention. Cross-platform app development tools and languages like Flutter, React Native, and Xamarin, as well as serverless and cloud-native development languages, are increasingly relevant. The growing emphasis on security and privacy leads to trends in languages like Rust and Ada, while concurrency and parallelism support in languages like Go and Erlang remains vital for modern software development. These trends collectively reflect the dynamic and diverse opportunities available to developers in the programming world in 2023.