

# INNOVATION IS INSIGHT IN ACTION.

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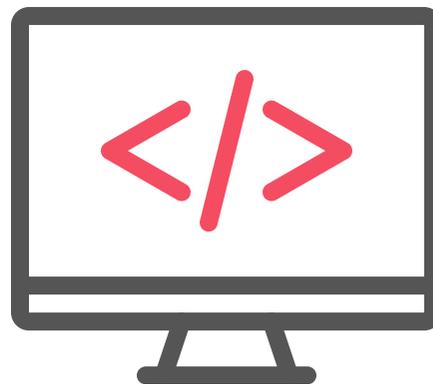
**PROGRAMMING IN JAVA**  
**[18CS653]**

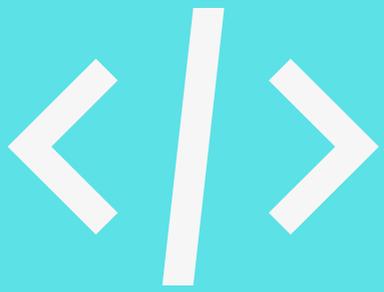


# Introduction to JAVA



Java is a programming language expressly designed for use in the distributed environment of the Internet. It was designed to have the “look and feel” of the C++ programming language, but it is simpler to use than C++ and enforces an object-oriented programming model. Java can be used to create complete applications that may run on a single computer or be distributed among servers and clients in a network. Java is advertised, and esteemed for its fast performance, security, and reliability.

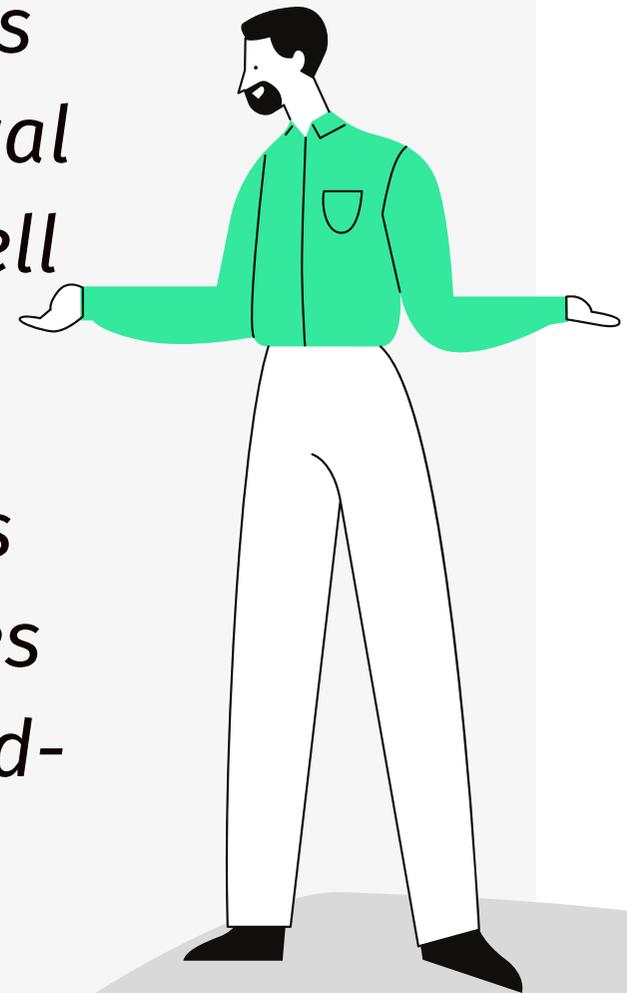




## Why is Java such a popular choice among modern-day software developers?

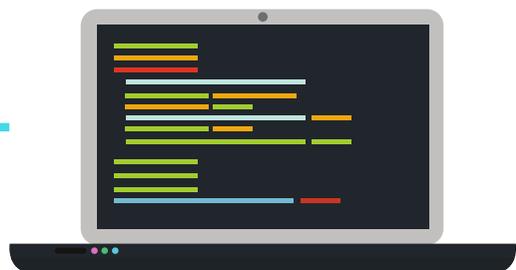
*Java is designed to enable development of portable, high-performance applications for the widest range of computing platforms possible, hence enabling the fundamental tenets of overarching accessibility as well as cross-platform interaction.*

*By making applications available across heterogeneous environments, businesses can provide more services and boost end-user productivity, communication, and collaboration—and dramatically reduce the cost of ownership of both enterprise and consumer applications.*



# Java has become invaluable to developers by enabling them to:

- Write software on one platform and run it on virtually any other platform.
- Create programs that can run within a web browser and access available web services.
- Develop server-side applications for online forums, stores, polls, HTML forms processing, and more.
- Combine applications or services using the Java language to create highly customized applications or services.
- Write powerful and efficient applications for mobile phones, remote processors, microcontrollers, wireless modules, sensors, gateways, consumer products, and practically any other electronic device.





## THE STATS

- 97% OF ENTERPRISE DESKTOPS RUN JAVA.
- 89% OF DESKTOPS (OR COMPUTERS) IN THE U.S. RUN JAVA.
- 9 MILLION JAVA DEVELOPERS WORLDWIDE.
- JAVA IS THE NUMBER 1 CHOICE FOR DEVELOPERS.
- JAVA CONTINUES TO BE THE MOST USED DEVELOPMENT PLATFORM.
- 3 BILLION MOBILE PHONES RUN JAVA.
- 100% OF BLU-RAY DISC PLAYERS SHIP WITH JAVA.
- THERE ARE CURRENTLY OVER 5 BILLION JAVA CARDS IN USE.
- 125 MILLION TV DEVICES RUN JAVA.
- 5 OF THE TOP 5 ORIGINAL EQUIPMENT MANUFACTURERS SHIP JAVA ME.

## Learning about Java Technology.



While the world of technology is constantly advancing, at what seems like a faster than ever pace, people, even coders, have a unfortunate tendency to forget about the origins. The underlying principles. The ideas which influenced an abundance of modern-day technology. This is why Java is important- because not only does it continue to be a vital and invaluable programming language today, but it shaped the manner in which technology would unfold in the coming two decades, and continue to unfold for the unforeseeable future.



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