

CORE JAVA – INTRODUCTION

Presented By Vtech Integrated Solutions
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WHY PROGRAMMING?

- Everything runs on software: mobile apps, websites, games, ATMs, washing machines!
- Logical thinking + creativity = problem-solving skills.
- High-paying jobs, freelancing, product building, automation, etc.



HISTORY OF PROGRAMMING

- **1940s - Assembly language, punched cards**
- **1950s–70s - FORTRAN, COBOL, C**
- **(1972)1990s - C++, Visual Basic, Java**
- **(1995)2000s - Rise of web & mobile apps (PHP, Python, JavaScript)**
- **Today - Cloud, AI, Java, Kotlin, Python, TypeScript**



WHAT IS JAVA?

- **High-level** programming language
- **Object-Oriented**
- **Platform-Independent** (Write Once, Run Anywhere – WORA)
- **Syntax similar to C/C++**
- Developed by **James Gosling** at **Sun Microsystems**
- Now owned by **Oracle Corporation**

WHERE IS JAVA USED?

- **Android App Development** (Most Android apps use Java or Kotlin)
- **Enterprise Applications** (Banking, Insurance – eg. ICICI, SBI, LIC use Java)
- **Web Applications** (Spring Boot, JSP, Servlets)
- **Embedded Systems** (Smart Cards, Sensors)
- **Desktop GUI Applications** (JavaFX, Swing)
- **Big Data Technologies** (Hadoop ecosystem)
- **Games & Simulation** (Minecraft is built in Java)





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WHY CHOOSE JAVA TODAY?

- Robust and Secure
- Object-Oriented (helps in modular coding)
- Large Community Support
- Cross-Platform
- API Rich (Lots of built-in functions)
- Career Opportunities (Java Developers in high demand)



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WHAT WILL YOU LEARN

- Syntax and Structure
- Variables, Data Types, Operators
- Control Statements
- OOP Concepts (Class, Object, Inheritance, Polymorphism, etc.)
- Exception Handling
- Collections Framework
- File I/O
- Multithreading
- Java 8 Features



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WHO USES JAVA IN THE REAL WORLD?

- Companies: Google, Amazon, Infosys, Wipro, IBM, Flipkart, Netflix
- Applications: UPI backend, railway booking systems, stock trading platforms, banking apps

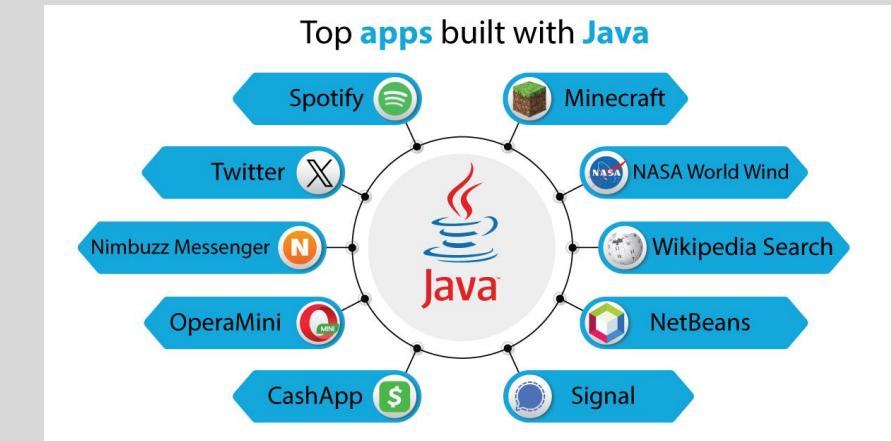




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FUN FACT + ICEBREAKER

- "Java is used on over 3 billion devices worldwide!"
- Q: Do you use Android apps?
- Q: Ever thought about how they're built?

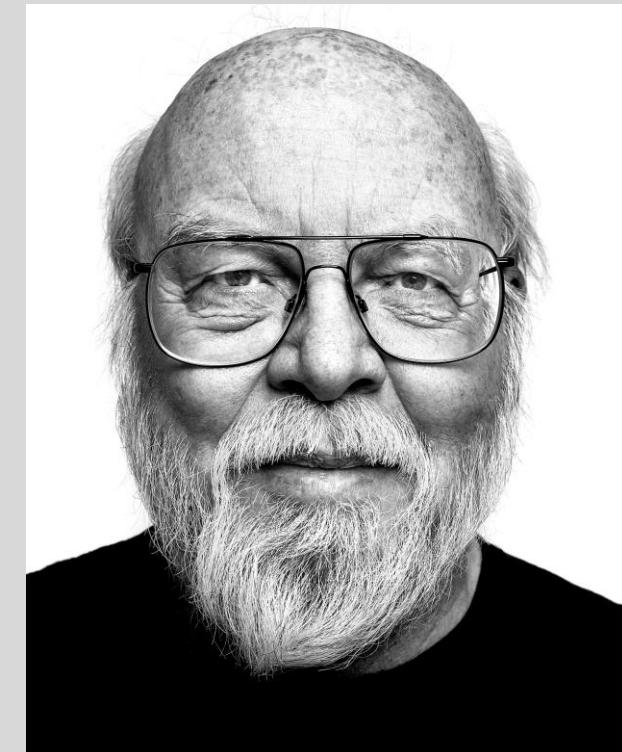
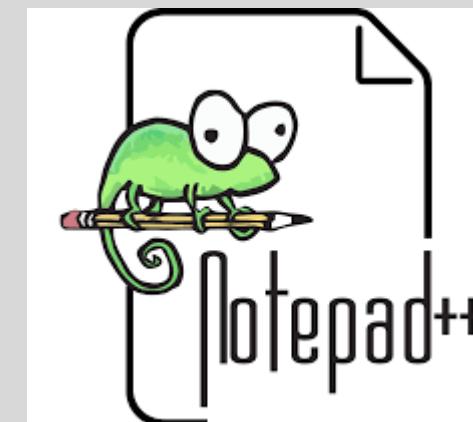




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YOUR FIRST HOMEWORK

- Install JDK(Java 8+)
- Install Notepad ++
- Explore who James Gosling is?





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Thank You!
For your attention

**Let's begin your journey in
Java Programming!**