



CORE JAVA CLASS -3

Presented By Vtech Integrated Solutions
Trainer: Vinay

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RECAP

- **History Of Java**
- **Versions and Editions of Java**
- **JDK, JRE, JVM**
- **Features Of Java**



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INTERVIEW QUESTIONS

- 1. What are the key features of Java?**

- 2. How is Java platform-independent?**

- 3. How does Java ensure security?**

- 4. What makes Java robust?**

- 5. Difference between Java and C++ in terms of simplicity?**

- 6. Why Java Doesn't Have Explicit Pointers?**



CLASS STRUCTURE

```
public class HelloWorld {  
    public static void main(String[] args) {  
        System.out.println("Hello, Java!");  
    }  
}
```

Execution Flow

- 1. Java starts execution from the main() method.**
- 2. If no main() → program won't run.**



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MAIN METHOD

public static void main(String args[])

The diagram illustrates the components of the Java main method signature: "public static void main(String args[])". It uses arrows to point from each part to its corresponding label. An upward-pointing arrow points from "main" to "Method name". A downward-pointing arrow points from "public" to "Access Specifier". Another downward-pointing arrow points from "void" to "Return type". A final upward-pointing arrow points from "String args[]" to "Array of string type".

Keyword Method name Array of string type

↓

Access Specifier Return type

↑

String args[]



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STRUCTURE OF A JAVA PROGRAM

Part	Description
class	Blueprint for objects
public	Access modifier
static	Belongs to class, not object
void	No return value
main	Method name (entry point)
String[] args	Array of command-line arguments
System.out.println()	Prints to console



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NAMING CONVENTIONS

- 1. Class - PascalCase**
- 2. Variable - camelCase**
- 3. Method - camelCase**
- 4. Constant - UPPER_SNAKE_CASE**



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COMMENTS IN JAVA

- 1. Single-line comment**
- 2. Multi-line comment**
- 3. Documentation comment**



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1. `println()`
2. `print()`
3. `printf()`

Item	Qty	Price
Apple	3	60.50
Banana	2	25.00

PRINTING TO CONSOLE

Specifier	Description
<code>%d</code>	Integer (decimal)
<code>%f</code>	Floating point (decimal)
<code>%s</code>	String
<code>%c</code>	Character
<code>%n</code>	New Line (like <code>\n</code>)
<code>%%</code>	Prints % symbol

Eg: Real-Life Use Case: Billing System



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COMMON ERRORS

Error	Cause
main method not found	Incorrect spelling
class not found	File name ≠ class name
; expected	Missing semicolon



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Thank You!
For your attention

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