CORE JAVA
CLASS -3

Presented By Vtech Integrated Solutions
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RECAP

- **History Of Java**

- **Versions and Editions of Java**

- **JDK, JRE, JVM**

- **Features Of Java**

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

```java
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.**

MAIN METHOD

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

NAMING CONVENTIONS

1. **Class - PascalCase**

2. **Variable - camelCase**

3. **Method - camelCase**

4. **Constant - UPPER_SNAKE_CASE**

COMMENTS IN JAVA

1. Single-line comment

2. Multi-line comment

3. Documentation comment

PRINTING TO CONSOLE

1. println()

2. print()

3. printf()

```
Item        Qty        Price
Apple         3        60.50
Banana        2        25.00
```

Eg: Real-Life Use Case: Billing System

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

COMMON ERRORS

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

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For your attention

Let's begin your journey in Java Programming!