Chapter 12 - Packages

Interpreter vs Compiler Interpreter translates one statement at a time into machine Code: Compiler scans the entire program and translates whole of it into machine code. Interpreter Compiler * Entire program at a time

* One statement at a time * Interpreter is needed everytime * Once compiled it is not needed

* Partial execution if error * No execution if an error occurs * Easy for programmers * Vsually not as easy as Interpreted ones

Is lava compiled or Interpreted? Java is a hybrid language - both compiled as well as interpreted

Java File (using savac) harry class by kode Can be used by Java interpreter

- → A JVM can be used to Interprete this bykcode

 This bytecode can be taken to any platform (wn/Mac/Linux)
 for execution
- Hence Java is platform independent (write once run everywhere)

	Executing a Java Program
	Javac Harry Java -> Compiled
536	Javac Harry Java -> Compiled Java Harry Class -> Interpreted (syntax:-java class_name)
No. 12	So fare the execution of our program was being
	So fare the execution of our program was being managed by intelly Idea: We can download a source and editor like V5 (ode to Compile & execute our Java programs.
	VS Code to Compile 8 execute our Java programs.
	Packages in Java
WAU.	Packages in Java A package is used to group related classes Packages help in avoiding name conflicts There are two types of packages: Built in packages - Java API Very de Gred backages - Custom backages
Ro	There are two types of packages:
*	Vser defined packages - custom packages
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	photo2 Jbg Song 3 mp3 > videos Constitutos
	Vide 1 mpt Video 2 mpt as folders
	1. class this Java my mp3 => organized
	Song Java harry Java as packages
	Using a Java package
	import java larg * -> import everything from Java larg
	import java lang * -> import everything from Java lang import java lang String -> import String from Java lang 5 = new Java lang String ("Harry") -> Use without importing

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