CHOO YONG HAN

JAVA PROGRAMMING ZERO TO HERO DAY 1
ASSIGNMENT

ASSIGNMENT 1: DIFFERENCE BETWEEN INTERPRETER AND COMPILER

Java interpreter is a computer program(systems software) that implements the JVM. It converts the high-level program into assembly language.

Java interpreter converts the Java bytecode(.class file) into the code that understand by the operating system.

INTERPRETER	COMPILER
Execution is slower.	Execution is faster.
Compile time is less.	Compile time is longer.
It does not generate the intermediate.	It generates the intermediate object code.
It compiles the program until an error is detected.	All errors show once at the end of compilation.
It translates the code instruction by instruction.	It translates the entire program at once.
It does not require source code for later execution.	It requires source code for later execution.
It converts the source code into object code.	It does not convert source code into object code instead it scans it line by line.
Compiler scans the whole program in one go.	It translates program one statement at a time.
For instance, Python, Ruby, Perl and PHP use an interpreter.	For instance, Java, C++, C, Scala uses a compiler.