JAVA PROGRAMMING
DAY-1 ASSIGNMENT

➢ Difference between Compiler and Interpreter

Compiler	Interpreter
Compiler converts the program written in High level language to Low level language.	Interpreter converts each high-level program statement, one by one, into machine code, during program run.
Compiler converts the source code into object code.	Intermediate does not generate intermediate object code or machine code.
Compiler executes conditional control statements and logical constructs faster than interpreter.	Interpreter execute conditional control statements at a much slower speed.
Compiler takes an entire program at once, before program runs.	Interpreter takes one statement at a time as input.
Compiler code runs faster.	Interpreter code runs slower.
Compiler displays errors after compilation.	Interpreter displays errors of each line one by one.
Compiled languages are more efficient but difficult to debug.	Interpreted languages are less efficient but easier to debug.
Examples: C Compiler, C++ Compiler, C# Compiler, PASCAL, Java Compiler, COBOL, etc…	**Examples**: PHP, Perl, RUBY, BASIC, Visual Basic, Python, MATLAB, Lisp, etc… languages use's interpreter.