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| Compiler | Interpreter |
| * A compiler takes the entire program in one go. * The compiler generates an intermediate machine codes. * The compiler is best suited for the production environment. * It is faster . * It is more efficient. * These are larger in size. * The compiler used by programming languages such as C,C++, C#, Scala, JAVA etc. * Error detection is difficult. | * An interpreter takes a single line of code at a time. * The interpreter never produces any intermediate machine code. * An interpreter is best suited for a software development environment. * It is slower. * It is less efficient. * These are smaller than compilers. * An interpreter is used by programming languages such as Python, PHP, Perl, Ruby etc. * Error detection is easier comparatively. |