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| **Sr. No.** | **Compiler** | **Interpreter** |
| 1 | Compiler scans the **whole program** at a time | Translates program **one statement** at a time. |
| 2 | As it scans the code in one go, the errors (if any) are shown at the end together. | Considering it scans code one line at a time, errors are shown line by line |
| 3 | Main advantage of compilers is it's execution time. | Due to interpreters being slow in executing the object code, it is preferred less. |
| 4 | It **converts** the source code into object code | It **does not convert** source code into object code instead it scans it line by line |
| 5 | It **does not require** source code for later execution. | It **requires** source code for later execution. |
| 6 | Examples: C, C++, C# etc | Example: Python, Ruby, Perl, SNOBOL, MATLAB, etc. |