| S.No. | Compiler | Interpreter |
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| 1. | Compiler scans the whole program in one go. | 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 its 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 | Compiler will convert the code into machine code before program run | Interpreters convert code into machine code when the program is run |
| Eg. | C, C++, C# etc. | Python, Ruby, Perl, SNOBOL, MATLAB, etc. |