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| S.no | Compiler | Interpretor |
| 1 | It takes the entire program in one go | It takes a single line of code at a time |
| 2 | It generate intermediate machine code | It never generate intermediate machine code |
| 3 | It requires more memory | It require less memory |
| 4 | Program execution is fast | Program execution is slow |
| 5 | Compilation takes place only oncei.e compile once and run everytime Compiled Program need not to be compiled every time | Interpreted program are interpreted line by line when they are executed |
| 6 | Error are reported after entire program is checked for syntactically error | Error are reported line wise |
| 7 | It isdifficult to debug | It is easy to debug |
| 8 | It doesn't allow to run a program until it is completely Error free | It run program from first line and stop execution if any error is encountered |
| 9 | Example: programming language like c,c++use it | Example:programming language like python useit |