**Interpreter Vs Compiler**

|  |  |
| --- | --- |
| Compiler | Interpreter |
| 1. Compiler scans the whole program in one go. | 1. 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. | 2. 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. | 3. Due to interpreters being slow in executing the object code, it is preferred less. |
| 4. It converts the source code into object code. | 4. 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. | 5. It requires source code for later execution. |
| 6. Compiled code run faster | 6. Interpreted code run slower |
| 7. It is best suited for the Production Environment | 7. It is best suited for the program and developmentenvironment. |
| 8. It is based on language translationlinking-loading model. | 8. It is based on Interpretation Method. |
| 9. Compliers generates intermediate machnie code. | 9. Interpreter never generate any intermediate machnie code. |
| 10. C,C++,C#, Scala, Java all use complier. | 10. PHP, Perl, Ruby uses an interpreter. |