### COMPILER VS INTERPRETER

BASIC COMPARISONS COMPILER INTERPRETER

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| --- | --- | --- |
| Input | It takes an entire line of code at a time | It takes single line of code or instruction at a time |
| Output | It generates intermediate object code | It does not produce any intermediate object code |
| Working Mechanism | The compilation is done before execution | Compilation and execution take place simultaneously |
| Speed | Comparatively faster | Slower |
| Memory | Memory requirement is more due to the creation of object code | Displays error of each line by one |
| Error | Display all errors after compilation,all at the same time | Displays error of each line one by one |
| Error detection | difficult | easier |
| Programming Languages | C,C++,C#,TYPESCRIPT | PHP,Perl,Ruby,Python uses interpreter |

### HOW COMPILER AND INTERPRETER WORKS

