Below is the difference between compiler and interpreter

Machine Code

Stores machine code in the disk storage.

Machine code is not stored anywhere.

Run Time

Compiled program runs faster

Interpreted program runs slower.

Input

The compiler takes in the entire program for analysis.

The interpreter takes in lines of code for analysis.

Output

The compiler gives intermediate code forms.

The interpreter does not generate any intermediate code forms.

Programming languages

C, C++, C#, Java are compiler-based programming languages

PHP, PERL, Ruby are interpreter-based programming languages.