Difference between interpreter and compiler -

**Interpreter** –

An interpreter is a software program that translates a source code into a machine language.

Interpreter translates just one statement of the program at a time into machine code.

It translates only one statement of the program at a time.

It requires less memory.

Programming languages like JavaScript, Python, Ruby use interpreter.

**Compiler** –

A compiler is also a software program that follows the syntax rule of programming language to convert a source code to machine code.

A compiler generates the error message only after it scans the complete program and hence debugging is relatively harder while working with a compiler.

It converts the source code into object code.

Memory requirement is more due to the creation of object code.

Programming languages like C, C++, Java use compilers.