**Compare Java & Scala**

1. Code type

In Scala, coding is reduced to the number of lines. The code that is written in Java can be written in Scala in half the number of lines.

1. Readability

Scala consists of nested coding (functions inside a function, inside of an object, inside a class) which makes the code less readable than Java. Sometimes, it improves clarity but it can be really tricky.

1. Operator overloading

Another difference between Scala and Java is that Scala supports operator overloading. It allows a programmer to overload any operator in Java and creates new operators. Java doesn’t support operator overloading.

1. Functions

Functions are objects in java. In Scala functions are variables.

1. Backward compatible

Scala is not backward compatible. It means code runs in the latest version only. But, java is backward compatible, java allows to run both older & newer version codes without any error.

1. Variables

In Scala variables are by default in immutable type. And in Java variables are by default in mutable type.