As a programming language, which was released in 1991 by the ingenious Dutch programmer Guido van Rossum, Python provides the proficient programmers the easiest way to code easy applications and web pages; also, it lowers the knowledge and skills requirement for those nonprofessional programming amateurs and those who use Python to perform easy tasks for other professional fields such as biology and environment.

Comparing with Java, which has strong and wide functions for coding, Python has the obvious advantages:

1. Python shortens the coding length. The original goal to design the Python language is to simplify the coding process so that programmers do not have to remember a number of coding styles and so called ‘grammers’.

e.g.

in Java: System.out.print(“Hello, world”);

in Python: print(‘Hello, world’)

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in Java: int x = 1;

String y = “Hello, world”­­­

char z = ‘a’

in Python: x = 1

y = ‘Hello, world’

z = ‘a’