9. Unicode System

Unicode is a universal international standard character encoding that is capable of representing most of the world's written languages.

Why java uses Unicode System?

Before Unicode, there were many language standards:

- o ASCII (American Standard Code for Information Interchange) for the United States.
- o ISO 8859-1 for Western European Language.
- o KOI-8 for Russian.
- o GB18030 and BIG-5 for chinese, and so on.

Problem

This caused two problems:

- 1. A particular code value corresponds to different letters in the various language standards.
- 2. The encodings for languages with large character sets have variable length. Some common characters are encoded as single bytes, other require two or more byte.

Solution

To solve these problems, a new language standard was developed i.e. Unicode System. In unicode, character holds 2 byte, so java also uses 2 byte for characters.

lowest value : \u0000 highest value : \uFFFF