String Operations in Java

# String

Creation: String s = "Hello"; or new String("Hello");

Concatenation: s1 + s2 or s1.concat(s2);

Length: s.length();

Character Access: s.charAt(index);

Substring: s.substring(start, end);

Comparison: s.equals(s2), s.equalsIgnoreCase(s2), s.compareTo(s2);

Search: s.contains("sub"), s.indexOf('a'), s.lastIndexOf('a');

Trim and Replace: s.trim(), s.replace('a', 'b');

Split: s.split(" ");

Case Conversion: s.toUpperCase(), s.toLowerCase();

Starts/Ends With: s.startsWith("prefix"), s.endsWith("suffix");

Convert to Array: s.toCharArray();

Join Strings: String.join("-", array);

# StringBuilder

Creation: StringBuilder sb = new StringBuilder("Hello");

Append: sb.append(" World");

Insert: sb.insert(index, "str");

Replace: sb.replace(start, end, "str");

Delete: sb.delete(start, end);

Reverse: sb.reverse();

Length and Capacity: sb.length(), sb.capacity();

Set Character: sb.setCharAt(index, 'c');

Convert to String: sb.toString();

# StringBuffer

Same methods as StringBuilder but thread-safe.

Use when multiple threads access the same instance.

Creation: StringBuffer sb = new StringBuffer("Hello");

Append: sb.append(" World");

Insert: sb.insert(index, "str");

Replace: sb.replace(start, end, "str");

Delete: sb.delete(start, end);

Reverse: sb.reverse();

Length and Capacity: sb.length(), sb.capacity();

Set Character: sb.setCharAt(index, 'c');

Convert to String: sb.toString();