

# Java Strings

# Strings

- Strings, which are widely used in Java programming, are a sequence of characters. In the Java programming language, strings are objects.
- The Java platform provides the String class to create and manipulate strings.

# Methods in String Class

- **char charAt(int index)**
- Returns the character at the specified index.
- **int compareTo(String anotherString)**
- Compares two strings lexicographically.
- **int compareToIgnoreCase(String str)**
- Compares two strings lexicographically, ignoring case differences.

# Methods Contd...

- **String concat(String str)**
- Concatenates the specified string to the end of this string.
- **boolean contentEquals(StringBuffer sb)**
- Returns true if and only if this String represents the same sequence of characters as the specified StringBuffer.

# Methods Contd...

- **int indexOf(int ch)**
- Returns the index within this string of the first occurrence of the specified character.
- **int indexOf(String str)**
- Returns the index within this string of the first occurrence of the specified substring.

# Methods Contd...

- **int lastIndexOf(int ch)**
- Returns the index within this string of the last occurrence of the specified character.
- **int lastIndexOf(String str)**
- Returns the index within this string of the rightmost occurrence of the specified substring.

# Methods Contd...

- int length()
- Returns the length of this string.
- String replace(char oldChar, char newChar)
- Returns a new string resulting from replacing all occurrences of oldChar in this string with newChar.

# Methods Contd...

- **boolean startsWith(String prefix)**
- Tests if this string starts with the specified prefix.
- **boolean startsWith(String prefix, int toffset)**
- Tests if this string starts with the specified prefix beginning a specified index.



# Methods Contd...

- **String substring(int beginIndex)**
- Returns a new string that is a substring of this string.
- **String substring(int beginIndex, int endIndex)**
- Returns a new string that is a substring of this string.
- **String trim()**
- Returns a copy of the string, with leading and trailing whitespace omitted.

# Methods Contd...

- [char\[\] toCharArray\(\)](#)
- Converts this string to a new character array.
- [String toLowerCase\(\)](#)
- Converts all of the characters in this String to lower case using the rules of the default locale.
- [String toUpperCase\(\)](#)
- Converts all of the characters in this String to upper case using the rules of the default locale.