

101 String methods

Here is a list of commonly used 101 String methods in Java, along with examples for each:

1. length()

Returns the length of the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello";  
        System.out.println("Length: " + str.length()); // Output: 5  
    }  
}
```

2. charAt()

Returns the character at the specified index.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello";  
        System.out.println("Character at index 1: " + str.charAt(1)); // Output: e  
    }  
}
```

3. substring()

Extracts a substring from the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World";  
        System.out.println("Substring: " + str.substring(6)); // Output: World  
    }  
}
```

4. equals()

Checks if two strings are equal.

```
public class Main {  
    public static void main(String[] args) {  
        String str1 = "Hello";  
        String str2 = "Hello";  
        System.out.println("Are strings equal? " + str1.equals(str2)); // Output: true  
    }  
}
```

5. equalsIgnoreCase()

Compares two strings, ignoring case.

```
public class Main {  
    public static void main(String[] args) {  
        String str1 = "HELLO";  
        String str2 = "hello";  
        System.out.println("Are strings equal ignoring case? " +  
str1.equalsIgnoreCase(str2)); // Output: true  
    }  
}
```

6. toUpperCase() and toLowerCase()

Converts the string to uppercase or lowercase.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello";  
        System.out.println("Uppercase: " + str.toUpperCase()); // Output: HELLO  
        System.out.println("Lowercase: " + str.toLowerCase()); // Output: hello  
    }  
}
```

7. trim()



Removes leading and trailing whitespace.

```
public class Main {  
    public static void main(String[] args) {  
        String str = " Hello ";  
        System.out.println("Trimmed: " + str.trim() + ""); // Output: 'Hello'  
    }  
}
```

8. replace()

Replaces occurrences of a character or substring.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World";  
        System.out.println("Replaced: " + str.replace("World", "Java")); // Output:  
Hello Java  
    }  
}
```

9. contains()

Checks if the string contains a specified sequence of characters.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello Java";  
        System.out.println("Contains 'Java': " + str.contains("Java")); // Output: true  
    }  
}
```

10. startsWith() and endsWith()

Checks if the string starts or ends with a specified substring.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World";  
        System.out.println("Starts with 'Hello': " + str.startsWith("Hello")); // Output:  
true  
        System.out.println("Ends with 'World': " + str.endsWith("World")); // Output:  
true  
    }  
}
```

11. indexOf()

Returns the index of the first occurrence of a character or substring.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World";  
        System.out.println("Index of 'o': " + str.indexOf('o')); // Output: 4  
    }  
}
```

12. lastIndexOf()

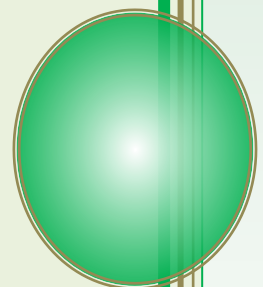
Returns the index of the last occurrence of a character or substring.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World";  
        System.out.println("Last index of 'o': " + str.lastIndexOf('o')); // Output: 7  
    }  
}
```

13. isEmpty()

Checks if the string is empty.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "";  
        System.out.println("Is empty: " + str.isEmpty()); // Output: true  
    }  
}
```



14. split()**Splits the string into an array based on a delimiter.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Java is fun";
        String[] words = str.split(" ");
        for(String word : words) {
            System.out.println(word); // Output: Java \n is \n fun
        }
    }
}

```

15. concat()**Concatenates (joins) two strings.**

```

public class Main {
    public static void main(String[] args) {
        String str1 = "Hello";
        String str2 = "World";
        System.out.println("Concatenated: " + str1.concat(" ").concat(str2)); //
Output: Hello World
    }
}

```

16. valueOf()**Converts different types to a string.**

```

public class Main {
    public static void main(String[] args) {
        int num = 100;
        System.out.println("String value: " + String.valueOf(num)); // Output: 100
    }
}

```

17. compareTo()**Compares two strings lexicographically.**

```

public class Main {
    public static void main(String[] args) {
        String str1 = "Apple";
        String str2 = "Banana";
        System.out.println("Comparison result: " + str1.compareTo(str2)); // Output:
Negative number (because "Apple" < "Banana")
    }
}

```

18. matches()**Tests if the string matches the given regular expression.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Java123";
        System.out.println("Matches regex: " + str.matches("[A-Za-z]+\d+")); //
Output: true
    }
}

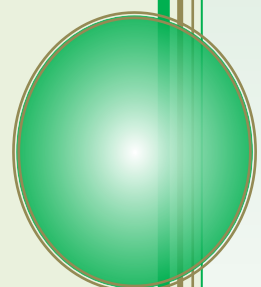
```

19. toCharArray()**Converts the string into a character array.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        char[] charArray = str.toCharArray();
        for(char ch : charArray) {
            System.out.println(ch); // Output: H \n e \n l \n l \n o
        }
    }
}

```



```
    }
  }
}
```

20. intern()

Returns a canonical representation for the string. It ensures that all strings with the same content share the same memory.

```
public class Main {
    public static void main(String[] args) {
        String str1 = new String("Hello").intern();
        String str2 = "Hello";
        System.out.println(str1 == str2); // Output: true (because they point to the
        same string in the pool)
    }
}
```

21. regionMatches()

Compares a specific region of one string with a specific region of another string.

```
public class Main {
    public static void main(String[] args) {
        String str1 = "HelloWorld";
        String str2 = "WorldHello";
        boolean result = str1.regionMatches(5, str2, 0, 5);
        System.out.println("Region matches: " + result); // Output: true
    }
}
```

22. replaceFirst()

Replaces the first occurrence of a regex with a replacement string.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println("Replace first 'o': " + str.replaceFirst("o", "O")); // Output:
        Hello World
    }
}
```

23. replaceAll()

Replaces all occurrences of a regex with a replacement string.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println("Replace all 'l': " + str.replaceAll("l", "L")); // Output:
        HeLLo WorLd
    }
}
```

24. codePointAt()

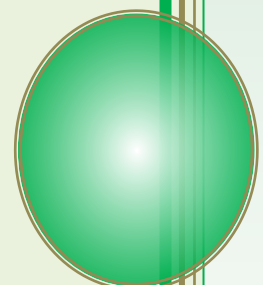
Returns the Unicode code point of the character at the specified index.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println("Code point at index 1: " + str.codePointAt(1)); // Output:
        101 (Unicode for 'e')
    }
}
```

25. codePointBefore()

Returns the Unicode code point of the character before the specified index.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
```



```

        System.out.println("Code point before index 1: " + str.codePointBefore(1)); //
Output: 72 (Unicode for 'H')
    }
}

```

26. codePointCount()

Returns the number of Unicode code points in the specified text range.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println("Code point count: " + str.codePointCount(0, str.length()));
// Output: 5
    }
}

```

27. getBytes()

Encodes the string into a sequence of bytes using the specified charset.

```

import java.nio.charset.StandardCharsets;

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        byte[] byteArray = str.getBytes(StandardCharsets.UTF_8);
        for(byte b : byteArray) {
            System.out.print(b + " "); // Output: 72 101 108 108 111
        }
    }
}

```

28. join()

Joins multiple strings with a specified delimiter.

```

public class Main {
    public static void main(String[] args) {
        String joined = String.join("-", "Java", "is", "fun");
        System.out.println("Joined string: " + joined); // Output: Java-is-fun
    }
}

```

29. format()

Formats the string using the specified format and arguments.

```

public class Main {
    public static void main(String[] args) {
        String str = String.format("Hello %s, you are %d years old.", "John", 25);
        System.out.println(str); // Output: Hello John, you are 25 years old.
    }
}

```

30. compareToIgnoreCase()

Compares two strings lexicographically, ignoring case differences.

```

public class Main {
    public static void main(String[] args) {
        String str1 = "apple";
        String str2 = "Apple";
        System.out.println(str1.compareToIgnoreCase(str2)); // Output: 0 (because
they are the same, ignoring case)
    }
}

```

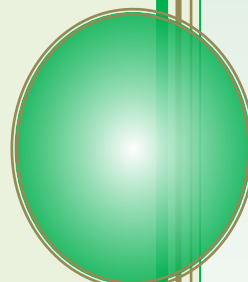
31. subSequence()

Returns a new character sequence that is a subsequence of this string.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println("Subsequence: " + str.subSequence(0, 5)); // Output: Hello

```




```
    }
}
```

32. `offsetByCodePoints()`

Returns the index within the string that is offset from the given index by the specified number of code points.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println("Offset by code points: " + str.offsetByCodePoints(0, 2)); //
Output: 2
    }
}
```

33. `hashCode()`

Returns the hash code of the string.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println("Hash code: " + str.hashCode()); // Output: unique hash
code for the string
    }
}
```

34. `getChars()`

Copies characters from a string into a destination character array.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        char[] dest = new char[5];
        str.getChars(0, 5, dest, 0);
        System.out.println(dest); // Output: Hello
    }
}
```

35. `getBytes(Charset charset)`

Encodes the string into a byte array using the specified charset.

```
import java.nio.charset.StandardCharsets;

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        byte[] byteArray = str.getBytes(StandardCharsets.UTF_8);
        for(byte b : byteArray) {
            System.out.print(b + " "); // Output: 72 101 108 108 111 32 87 111 114 108
        }
    }
}
```

36. `contentEquals()`

Checks whether the string's content matches a `CharSequence` or `StringBuffer`.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        StringBuffer sb = new StringBuffer("Hello");
        System.out.println("Content equals: " + str.contentEquals(sb)); // Output: true
    }
}
```

37. `compareTo()`

Compares two strings lexicographically based on the Unicode values of each character.

```

public class Main {
    public static void main(String[] args) {
        String str1 = "abc";
        String str2 = "xyz";
        System.out.println(str1.compareTo(str2)); // Output: negative number
        because "abc" < "xyz"
    }
}

```

38. split(String regex, int limit)

Splits the string around matches of the given regular expression, with a limit on the number of results.

```

public class Main {
    public static void main(String[] args) {
        String str = "Java is fun is interesting";
        String[] words = str.split(" ", 3); // limit to 3 parts
        for (String word : words) {
            System.out.println(word);
        }
        // Output:
        // Java
        // is
        // fun is interesting
    }
}

```

39. copyValueOf()

Returns a string that represents the character array.

```

public class Main {
    public static void main(String[] args) {
        char[] data = { 'H', 'e', 'l', 'l', 'o' };
        String str = String.copyValueOf(data);
        System.out.println(str); // Output: Hello
    }
}

```

40. lines()

Returns a Stream<String> of lines from the string, separated by line terminators.

```

import java.util.stream.Stream;

public class Main {
    public static void main(String[] args) {
        String str = "Hello\nWorld\nJava";
        Stream<String> lines = str.lines();
        lines.forEach(System.out::println);
        // Output:
        // Hello
        // World
        // Java
    }
}

```

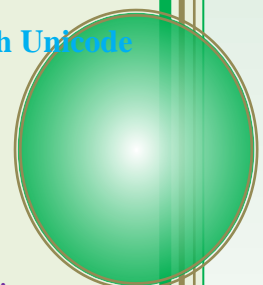
41. strip()

Removes leading and trailing spaces from the string (similar to trim() but with Unicode support).

```

public class Main {
    public static void main(String[] args) {
        String str = " Hello World ";
        System.out.println("'" + str.strip() + "'"); // Output: 'Hello World'
    }
}

```



```
}
```

42. stripLeading()

Removes only the leading whitespace from the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = " Hello World";  
        System.out.println("'" + str.stripLeading() + "'"); // Output: 'Hello World'  
    }  
}
```

43. stripTrailing()

Removes only the trailing whitespace from the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello World ";  
        System.out.println("'" + str.stripTrailing() + "'"); // Output: 'Hello World'  
    }  
}
```

44. repeat()

Repeats the string a given number of times.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Java ";  
        System.out.println(str.repeat(3)); // Output: Java Java Java  
    }  
}
```

45. indent()

Adds a specified number of spaces to the beginning of each line of the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello\nWorld";  
        System.out.println(str.indent(4));  
        // Output:  
        //   Hello  
        //   World  
    }  
}
```

46. transform()

Applies a transformation function to the string.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Java";  
        String result = str.transform(s -> s.toUpperCase());  
        System.out.println(result); // Output: JAVA  
    }  
}
```

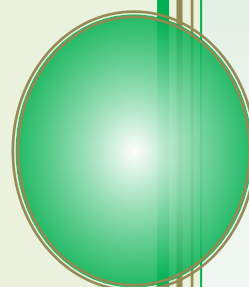
47. formatted()

Formats the string with the provided arguments (similar to String.format()).

```
public class Main {  
    public static void main(String[] args) {  
        String template = "Hello, %s!";  
        String result = template.formatted("World");  
        System.out.println(result); // Output: Hello, World!  
    }  
}
```

48. isBlank()

Checks if the string is empty or contains only whitespace.




```
public class Main {
    public static void main(String[] args) {
        String str = " ";
        System.out.println(str.isBlank()); // Output: true
    }
}
```

49. concat() (Advanced usage with objects)

Concatenates multiple objects converted to strings.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello".concat(" ").concat(String.valueOf(123));
        System.out.println(str); // Output: Hello 123
    }
}
```

50. join(CharSequence delimiter, CharSequence... elements)

Joins multiple CharSequence elements using the provided delimiter.

```
public class Main {
    public static void main(String[] args) {
        String result = String.join(" ", "Java", "is", "fun");
        System.out.println(result); // Output: Java, is, fun
    }
}
```

51. isUpperCase()

Java doesn't have a String.isUpperCase() method directly, but you can use Character.isUpperCase() for individual characters.

```
public class Main {
    public static void main(String[] args) {
        char ch = 'A';
        System.out.println(Character.isUpperCase(ch)); // Output: true
    }
}
```

52. isLowerCase()

Similarly, there's no String.isLowerCase(), but you can check individual characters using Character.isLowerCase().

```
public class Main {
    public static void main(String[] args) {
        char ch = 'a';
        System.out.println(Character.isLowerCase(ch)); // Output: true
    }
}
```

53. isLetter()

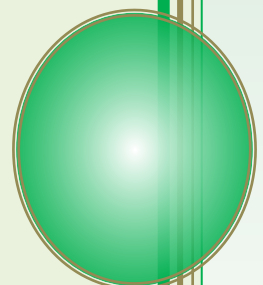
Checks if a given character is a letter.

```
public class Main {
    public static void main(String[] args) {
        char ch = 'a';
        System.out.println(Character.isLetter(ch)); // Output: true
    }
}
```

54. isDigit()

Checks if a character is a digit.

```
public class Main {
    public static void main(String[] args) {
        char ch = '5';
        System.out.println(Character.isDigit(ch)); // Output: true
    }
}
```



```
    }
}
```

55. isWhitespace()

Checks if a character is a whitespace character.

```
public class Main {
    public static void main(String[] args) {
        char ch = ' ';
        System.out.println(Character.isWhitespace(ch)); // Output: true
    }
}
```

56. trim()

Removes leading and trailing whitespaces from the string.

```
public class Main {
    public static void main(String[] args) {
        String str = " Hello World ";
        System.out.println("'" + str.trim() + "'"); // Output: 'Hello World'
    }
}
```

57. valueOf()

Converts different types of values (int, double, char array, etc.) to their String representation.

```
public class Main {
    public static void main(String[] args) {
        int num = 100;
        String str = String.valueOf(num);
        System.out.println(str); // Output: "100"

        char[] chars = {'H', 'e', 'l', 'l', 'o'};
        String str2 = String.valueOf(chars);
        System.out.println(str2); // Output: "Hello"
    }
}
```

58. indexOf()

Returns the index of the first occurrence of the specified character or substring in the string.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println(str.indexOf('o')); // Output: 4
        System.out.println(str.indexOf("World")); // Output: 6
    }
}
```

59. lastIndexOf()

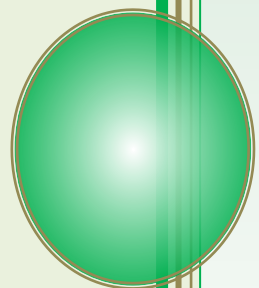
Returns the index of the last occurrence of the specified character or substring.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World Hello";
        System.out.println(str.lastIndexOf('o')); // Output: 15
        System.out.println(str.lastIndexOf("Hello")); // Output: 12
    }
}
```

60. startsWith()

Checks if the string starts with the specified prefix.

```
public class Main {
    public static void main(String[] args) {
```



```

        String str = "Hello World";
        System.out.println(str.startsWith("Hello")); // Output: true
    }
}

```

61. endsWith()

Checks if the string ends with the specified suffix.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println(str.endsWith("World")); // Output: true
    }
}

```

62. toUpperCase()

Converts all the characters of the string to uppercase.

```

public class Main {
    public static void main(String[] args) {
        String str = "hello world";
        System.out.println(str.toUpperCase()); // Output: HELLO WORLD
    }
}

```

63. toLowerCase()

Converts all the characters of the string to lowercase.

```

public class Main {
    public static void main(String[] args) {
        String str = "HELLO WORLD";
        System.out.println(str.toLowerCase()); // Output: hello world
    }
}

```

64. codePointAt()

Returns the Unicode code point of the character at the specified index.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println(str.codePointAt(0)); // Output: 72 (Unicode for 'H')
    }
}

```

65. codePointBefore()

Returns the Unicode code point before the specified index.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        System.out.println(str.codePointBefore(1)); // Output: 72 (Unicode for 'H')
    }
}

```

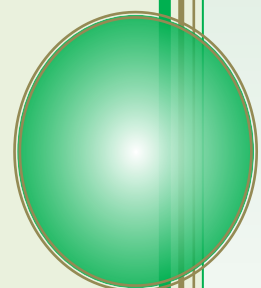
66. substring()

Extracts a substring from the string starting from the specified index, optionally ending at another index.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println(str.substring(6)); // Output: "World"
        System.out.println(str.substring(0, 5)); // Output: "Hello"
    }
}

```



67. contains()

Checks if the string contains the specified sequence of characters.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        System.out.println(str.contains("World")); // Output: true
    }
}
```

68. split()

Splits a string into an array of substrings based on a regular expression (or a specific delimiter).

```
public class Main {
    public static void main(String[] args) {
        String str = "apple,banana,orange";
        String[] fruits = str.split(",");
        for (String fruit : fruits) {
            System.out.println(fruit);
        }
        // Output:
        // apple
        // banana
        // orange
    }
}
```

69. replace()

Replaces all occurrences of a character or substring with another character or substring.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        String result = str.replace("World", "Java");
        System.out.println(result); // Output: Hello Java
    }
}
```

70. replaceAll()

Replaces all substrings that match a given regular expression.

```
public class Main {
    public static void main(String[] args) {
        String str = "123abc456";
        String result = str.replaceAll("\\d", "X"); // Replaces digits with 'X'
        System.out.println(result); // Output: XXXabcXXX
    }
}
```

71. replaceFirst()

Replaces the first occurrence of a substring that matches a given regular expression.

```
public class Main {
    public static void main(String[] args) {
        String str = "123abc456";
        String result = str.replaceFirst("\\d", "X"); // Replaces the first digit with 'X'
        System.out.println(result); // Output: X23abc456
    }
}
```

72. intern()

Returns a canonical representation of the string. If the string is already in the string pool, it returns that instance. Otherwise, it adds the string to the pool and returns the reference.

```
public class Main {
    public static void main(String[] args) {
```

```
String str1 = new String("Hello").intern();
String str2 = "Hello";
System.out.println(str1 == str2); // Output: true (because both refer to the
same instance)
}
```

73. charAt()

Returns the character at the specified index.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        char ch = str.charAt(1); // 'e'
        System.out.println(ch); // Output: e
    }
}
```

74. getChars()

Copies characters from a string to a character array.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        char[] arr = new char[5];
        str.getChars(0, 5, arr, 0);
        System.out.println(arr); // Output: Hello
    }
}
```

75. concat()

Concatenates the specified string to the end of the current string.

```
public class Main {
    public static void main(String[] args) {
        String str1 = "Hello";
        String str2 = " World";
        String result = str1.concat(str2);
        System.out.println(result); // Output: Hello World
    }
}
```

76. regionMatches()

Tests if two string regions are equal.

```
public class Main {
    public static void main(String[] args) {
        String str1 = "Hello World";
        String str2 = "Hello Java";
        boolean match = str1.regionMatches(0, str2, 0, 5);
        System.out.println(match); // Output: true (because "Hello" matches in
both strings)
    }
}
```

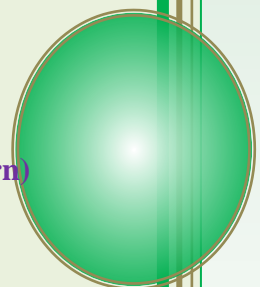
77. matches()

Checks if the string matches a given regular expression.

```
public class Main {
    public static void main(String[] args) {
        String str = "abc123";
        boolean isMatch = str.matches("[a-z]+\\d+");
        System.out.println(isMatch); // Output: true (matches the pattern)
    }
}
```

78. toCharArray()

Converts the string into a character array.




```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        char[] chars = str.toCharArray();
        for (char c : chars) {
            System.out.print(c + " ");
        }
        // Output: H e l l o
    }
}
```

79. join()

Joins an array of strings using a delimiter.

```
import java.util.StringJoiner;
public class Main {
    public static void main(String[] args) {
        String[] words = {"apple", "banana", "orange"};
        String result = String.join(", ", words);
        System.out.println(result); // Output: apple, banana, orange
    }
}
```

80. format()

Returns a formatted string using the specified format string and arguments, similar to printf.

```
public class Main {
    public static void main(String[] args) {
        String name = "John";
        int age = 25;
        String result = String.format("My name is %s and I am %d years old.", name, age);
        System.out.println(result); // Output: My name is John and I am 25 years old.
    }
}
```

81. compareTo()

Compares two strings lexicographically.

```
public class Main {
    public static void main(String[] args) {
        String str1 = "apple";
        String str2 = "banana";
        int result = str1.compareTo(str2);
        System.out.println(result); // Output: -1 (because "apple" is lexicographically less than "banana")
    }
}
```

82. compareToIgnoreCase()

Compares two strings lexicographically, ignoring case differences.

```
public class Main {
    public static void main(String[] args) {
        String str1 = "apple";
        String str2 = "Apple";
        int result = str1.compareToIgnoreCase(str2);
        System.out.println(result); // Output: 0 (because "apple" and "Apple" are considered equal, ignoring case)
    }
}
```

83. contentEquals()

Checks if the string content matches a StringBuffer or CharSequence.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        StringBuffer buffer = new StringBuffer("Hello");
        boolean result = str.contentEquals(buffer);
        System.out.println(result); // Output: true
    }
}

```

84. substring()

Returns a substring from a given string, starting from the specified index, optionally up to an ending index.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        String result = str.substring(6); // From index 6 to the end
        System.out.println(result); // Output: World

        String result2 = str.substring(0, 5); // From index 0 to 5
        System.out.println(result2); // Output: Hello
    }
}

```

85. hashCode()

Returns the hash code of the string, useful for storing strings in hash-based data structures like **HashMap**.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        int hash = str.hashCode();
        System.out.println(hash); // Output: unique hash code for "Hello"
    }
}

```

86. startsWith()

Checks if the string starts with the specified prefix.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        boolean result = str.startsWith("Hello");
        System.out.println(result); // Output: true
    }
}

```

87. endsWith()

Checks if the string ends with the specified suffix.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello World";
        boolean result = str.endsWith("World");
        System.out.println(result); // Output: true
    }
}

```

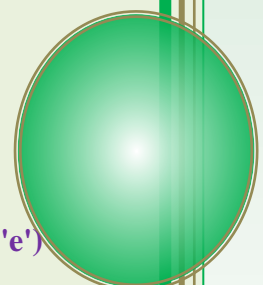
88. codePointAt()

Returns the Unicode code point of the character at the specified index.

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        int codePoint = str.codePointAt(1); // Unicode value of 'e'
        System.out.println(codePoint); // Output: 101 (Unicode value of 'e')
    }
}

```



}

89. codePointBefore()**Returns the Unicode code point of the character before the specified index.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        int codePoint = str.codePointBefore(1); // Unicode value of 'H'
        System.out.println(codePoint); // Output: 72 (Unicode value of 'H')
    }
}

```

90. codePointCount()**Returns the number of Unicode code points in the specified range of the string.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        int codePointCount = str.codePointCount(0, str.length());
        System.out.println(codePointCount); // Output: 5
    }
}

```

91. offsetByCodePoints()**Returns the index that is offset by a specified number of code points starting from the given index.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        int index = str.offsetByCodePoints(0, 3);
        System.out.println(index); // Output: 3 (index of 'l')
    }
}

```

92. isEmpty()**Checks if the string is empty.**

```

public class Main {
    public static void main(String[] args) {
        String str = "";
        boolean result = str.isEmpty();
        System.out.println(result); // Output: true
    }
}

```

93. isBlank()**Checks if the string is empty or contains only whitespace characters (available from Java 11).**

```

public class Main {
    public static void main(String[] args) {
        String str = " ";
        boolean result = str.isBlank();
        System.out.println(result); // Output: true
    }
}

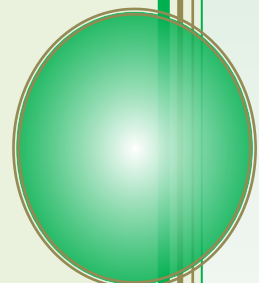
```

94. repeat() (Java 11+)**Repeats the string a specified number of times.**

```

public class Main {
    public static void main(String[] args) {
        String str = "Hi ";
        String repeatedStr = str.repeat(3);
        System.out.println(repeatedStr); // Output: Hi Hi Hi
    }
}

```



```
}
}
```

95. strip() (Java 11+)

Removes leading and trailing whitespace, similar to trim() but also removes other types of whitespace characters.

```
public class Main {
    public static void main(String[] args) {
        String str = "\t Hello World \n";
        String strippedStr = str.strip();
        System.out.println(strippedStr); // Output: "Hello World"
    }
}
```

96. stripLeading() (Java 11+)

Removes leading whitespace characters.

```
public class Main {
    public static void main(String[] args) {
        String str = " Hello";
        String result = str.stripLeading();
        System.out.println(result); // Output: "Hello"
    }
}
```

97. stripTrailing() (Java 11+)

Removes trailing whitespace characters.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello ";
        String result = str.stripTrailing();
        System.out.println(result); // Output: "Hello"
    }
}
```

98. indent() (Java 12+)

Adjusts the indentation of the string by a specified number of spaces.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello\nWorld";
        String indentedStr = str.indent(4); // Adds 4 spaces to the beginning of each
line
        System.out.println(indentedStr);
    }
}
```

99. transform() (Java 12+)

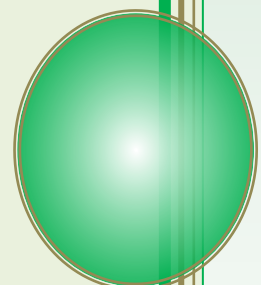
Applies a function to the string and returns the result.

```
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        String result = str.transform(s -> s + " World");
        System.out.println(result); // Output: Hello World
    }
}
```

100. describeConstable() (Java 12+)

Returns an Optional containing the string (a representation of a constant).

```
import java.util.Optional;
public class Main {
    public static void main(String[] args) {
        String str = "Hello";
        Optional<String> optional = str.describeConstable();
    }
}
```



```
        optional.ifPresent(System.out::println); // Output: Hello  
    }  
}
```

101. resolveConstantDesc() (Java 12+)

Returns the string itself as a constant description.

```
public class Main {  
    public static void main(String[] args) {  
        String str = "Hello";  
        Object constant = str.resolveConstantDesc(null);  
        System.out.println(constant); // Output: Hello  
    }  
}
```

The world is yours, and everything in it,
it's out there, get on your grind and get it."
- Rick Ross.

